KONGUNADU ARTS AND SCIENCE COLLEGE (AUTONOMOUS) [Re-accredited by NAAC with 'A' Grade 3.64 CGPA-(3rd Cycle)]

Coimbatore – 641 029



DEPARTMENT OF INFORMATION TECHNOLOGY

QUESTION BANKS

S.No	Name of the Subject
1.	Object Oriented Programming With C++
2.	Client/Server Computing
3.	Computer Organization And Architecture
4.	C Programming
5.	Data Structures And Algorithms
6.	Data Mining
7.	Embedded Systems
8.	Information Security
9.	Java Programming
10.	Microprocessor, Pc- Hardware And Interfacing
11.	Mobile Computing
12.	Operating Systems
13.	Principles Of Data Communications And Network
14.	Open Source Tools
15.	Python Programming
16.	Relational Database Management System And Oracle
17.	Software Engineering
18.	Visual Basic .Net
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SUBJECTS

KONGUNADU ARTS AND SCIENCE COLLEGE (AUTONOMOUS) **COIMBATORE - 641 029**



QUESTION BANK

SUBJECT CODE: 18UIT2C3 TITLE OF THE PAPER: OBJECT ORIENTED PROGRAMMING WITH C++ DEPARTMENT OF INFORMATION TECHNOLOGY

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Prepared by

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SECTION A

1. C++ was developed by
a) Dennis Ritchie b) Bjarne Stroustrup c) Ken Thompson d) Balagurusamy
2. Write the name of the operator >>
a) get form b) put to c) insertion d) extraction
3. In c++, the main function returns the default data type
a) Float b) void c) int d) char
4. Which is a collection of similar objects?
a) Class b) Function c) Data d) Array
 A is grouping of object having identical properties.
a) class b) abstraction c) inheritance d) polymorphism
6. New operator is used to
 6. New operator is used to a) Allocates the memory b) Release the memory c) create an object d) None of the above 7. Object may communicate through a) Class b) Function c) Data d) Array
c) create an object d) None of the above
7. Object may communicate through
8. The object oriented programming feature Inheritance provides
a) Reusability b) Error detection c) Easy access d) Function
9. A symbol which is used to perform an operation is called
a) Operator b) Variable c) Identifier d) Constant
10. Wrapping up of data and functions in a single unit is
a) Encapsulation b) Inheritance c) Polymorphism d) Class 11. Object Oriented Programming follows the approach in program designing is
a) Top-down b) Bottom-up c) Structured d) Both (a) and (b)
12. The smallest individual unit in a program is called
a) Function b) Token c) Record d) File
13. Which process is used to create a new class from the existing class?
a) Encapsulation b) Polymorphism c) Inheritance d) Functions
14. Using a single function name to perform different types of tasks is known
as
a) Polymorphism b) Dynamic binding c) Function overloading d)Inheritance
15. The feature which provides an alternate name to the existing variable is known as
a) Function b) Recursion c) Inline d) Reference
16. The cin and cout objects require the header file to include
a) iostream.h b) iomanip.h c) conio.h d) fstream.h
17. The manipulator setwidth() is used to seta) decimal places b) number of digits c) field width d) flag
18. The : : is known as
a) scope access operator b) double colons c) manipulator d) precision
19. The procedure of representing essential features without including background details
a) Class b) abstraction c) inheritance d) polymorphism
20. The insertion operator is
a) >> \dot{b} << c) * d) &
21. The member function defined inside the class are treated
a) Static b) inline c) friend d) private
22. When a variable is declared as static it is initialized to
a) zero b) one c) two d) Garbage

23. Bit fields provides exact amount of the storage of values in terms of
a) bytes b) bits c) information d) data
24. The access specifier public used in a class is terminated by
a) : b), c); d)()
25. By default, The members of a class are
a) public b) private c) protected d) none
26. A non-member function that can access the private data of the class is known as
a) Friend b) static c) member d) library
27. Destructor is preceded by the operator a) \sim b): c) = d);
$a_1 \sim b_1$. $c_1 = a_1$, 28. Constructor is executed when the
a) object is created b) object is destroyed c) class is declared d) class is destroyed
29. The destructor is executed when
a) object goes out of scope b) object is not used c) object contains nothing d) none
30. When memory allocation is essential, the constructor makes implicit call to
a) new operator b) malloc() c) memsell d) ram
31. Constructors are declared only in the access specifier
a) Private b) public c) protected d) none
32. In C++, the declaration of functions and variables are collectively called
a) class members b) function members c) object members d) member variables
33. The variables declared inside the class are known as data members and functions are
known as
a) data functions b) inline functions c) member functions d) member variables
34. The member variable is initialized to zero when the first object of its class is created
where no other initialization is permitted.
a) friend b) static c) public d) private
35. A constructor that accepts no parameters is called the
a) default constructor b) parameterized constructor c) implicit constructor d) null
constructor
36. The constructors that can take arguments are called
 a) default constructor b) parameterized constructor c) implicit constructor d) argument constructor
37. Destructor is a member function whose name is same as the class name but is preceded
by a
a) tilde b) hash c) dot d) dollor
38. Which of the following two entities (reading from Left to Right) can be connected by the
dot operator?
a) class member and a class object. b) A class object and a class.
c) A class and a member of that class. d) A class object and a member of that class.
39. The object is declared outside all function bodies is known as
a) Global b) local c) variable d) scope access
40. The object is declared inside all function bodies is known as
a) Global b) local c) variable d) scope access
41. In Inheritance, The existing classes are known as
a) base classes b) derived classes c) inheritance d) both
42. The relationship between base and derived class is known as
a) kind of relationship b) reusability c) access specifiers d) visiblity
43. Type of inheritance between one base and derived class is known as
a) Single b) multilevel c) multiple d) hybrid
44. When two or more base classes are used for derivation is a type of inheritance

a) single b) multilevel c) multiple d) hybrid
45. When a single base class is used for the derivation of two or more classes is known as _
a) hierarchical b) multilevel c) multiple d) hybrid
46. When a class is derived from another derived class is known as the inheritance of
a) hierarchical b) multilevel c) multiple d) hybrid
47. The combination of one or more type of inheritance is known as
a) hierarchical b) multilevel c) multiple d) hybrid
48. Giving special meaning to an operator is
a) Abstract operator b) operator definition c) operator overload d) special operator
49. Which operator cannot be overloaded?
a) :: b) () c) -> d) []
50. The duplicate of inherited members due to the multiple paths can be avoided by making
the common base class as
a) virtual b) derived c) abstract d) duplicate
51. Operator overloading is a type of polymorphism
a) Compile time b) Run time c) Error time d) None of these
52. The class without object is called
a) Virtual class b) Abstract class c) Base class d) Derived class
53. The overloaded operator must have at least number of operands
a) 2 b) 3 c) 4 d) 1
54. How many operands are used in operator overloading function when a unary operator is
overloaded using member function?
a) 2 b) 3 c) 0 d) 1
55. How many operands are used in operator overloading function when a unary operator is
overloaded using friend function?
a) 2 b) 3 c) 0 d) 1
56. How many operands are used in operator overloading function when a binary operator is
overloaded using member function? a) 2 b) 3 c) 0 d) 1
57. How many operands are used in operator overloading function when a binary operator is
overloaded using friend function? $a \ge 2$ $b \ge 2$ $a \ge 0$ $d \ge 1$
a) 2 b) 3 c) 0 d) 1
58. The unary operator can be used as prefix or suffix with the function. a) ++ b) ** c) + d)-
59. The friend function can be called without using
a) object b) class c) function d) all the above
60. In multilevel inheritance, the middle class acts as
a) base class as well as derived class b) only base class c) only derived class
d) variable
61. The allocation of memory during program run time is called the memory allocation of
a) static b) dynamic c) pointer d) none of the above
62. The deference operator is
a) * b) & c) ! d) $\#$
63. The address operator is
a) * b) & c) ! d) #
64. The delete operator is used for memory
a) allocates b) deallocates c) destroys d) create
65. The function malloc() is used for memory
a) Allocation b) deallocates c) destroys d) create

66. An object can be created at run-time, such object is called
a) dynamic b) static c) new d) delete
67. The variable which contains the address of an object
a) Function b) Pointer c) This d) Array
68. The keyword which is used to represent an object that invokes a member function
a) Function b) Pointer c) This d) Array
69. Run time polymorphism is
a) Virtual function b) Function overloading c) Operator overloading d) this
70. The object oriented programming feature One name many forms is called as
a) This b) Pointer c) Polymorphism d) Virtual function
71. The input from the keyboard goes into the program usinga) Output streamb) IO streamc) Input streamd) Stream buffer
72. The interface which is used to the physical devices through buffer is
a) Output stream b) IO stream c) Input stream d) Stream buffer
73. The built in function available in iostream.h used to get a character from the keyboard is
a) Put() b) get() c) get line() c) write()
74. The formatting flags are available in ios class without the field
 a) Byte b) Bit c) Data type d) Float 75. The predefined function used to reset the flag a) setw() b) unsetf() c) setfill() d) setf()
a) setw() b) unsetf() c) setfill() d) setf()
76. A pure virtual function with which of the following
a) no body b) no syntax c) complex constructs d) none of these
77. Which is the operator is used to access the members of a class using pointer?
a) $->$ b). c) & d) *
78. Write the output of cout.width (10); cout.fill ('*'); cout<<"Hello";
a) Hello***** b) *****Hello c) Hello d) *********
79. The array name itself is a
a) Pointer b) reference c) variable d) object
80. Array elements are stored in
a) continuous memory location b) different memory location
b) CPU registers d) none of the above
81. The extraction operators are defined in the class
a) istream b) ostream c) iostream d) none 82. The eof() stands for
a) end of file b) error opening file c) error of file d) extraction of file
83. The data is stored in the devices
a) Storage b) Disk c) Memory d) Hardware
84. Collection of records is
a) File b) Data c) Row d) columns
85. We can read and write the data in the file using the classes
a) Base b) Derived c) Dynamic d) Stream
86. File I/O uses an interface between program and files
a) Input stream b) Output stream c) File stream d) Stream
87. The stream which is used to read the data from the file
a) Class b) Input c) Output d) Stream buffer
88. A file can be opened in ways.
a) 3 b) 4 c) 5 d) 2
89. The function moves the get pointer to a specified location is
a) Seekp() b) Seekg() c) tellg() d) tellp()

- 90. The arguments that are supplied at the time of invoking the program is calleda) Parameterized b) argc c) argv d) Command line
- 91. The generic classes and functions are defined by using
- a) Parameters b) Prototype c) Templates d) Array
- 92. The file operation is completed, it should be closed by using the functiona) open() b) close() c) write() d) read()
- 93. The function which is used to open more than one file in the program isa) Open() b) close() c) write() d) read()
- 94. With the same stream object we can open number of files with open() function.
 - a) Single b) only two c) multiple d) zero
- 95. Eof() returns the value if the end-of-file condition is encountered is
 - a) Non-zero value b) zero c) error d) string
- 96. What is use of eof()?
 - a) Returns true if a file open for reading has reached the next character.
 - b) Returns true if a file open for reading has reached the next word.
 - c) Returns true if a file open for reading has reached the end.
 - d) Returns true if a file open for reading has reached the middle.
- 97. offset counted from the current position using ? a) ios::curr b) ios::cr c) ios::cur d) ios::current
- 98. Which functions allow to change the location of the get and put positions?
- a) sg() and sp()b) sekg() and sekp() c) gog() and gop() d) seekg() and seekp() 99. ios::trunc is used for ?
 - a) If the file is opened for output operations and it already existed, no action is taken.
 - b) If the file is opened for output operations and it already existed, its previous content is deleted and replaced by the new one.
 - c) If the file is opened for output operations and it already existed, then a new copy is created.
 - d) None of above
- 100. Which among is used for positioning relative to the beginning of a stream ?
 - a) ios::start b) ios::beg Oc) ios::begin d) ios::beginning

Section B

- 1. Explain in detail about Procedure oriented programming
- 2. Explain in detail about Object Oriented Programming
- 3. Write notes on Benefits and Applications of OOPs
- 4. Explain the Structure of a C++ program
- 5. What are the advantages of new operator over malloc() operator.
- 6. What are inline functions? Explain
- 7. Explain the recursion? Explain with example
- 8. What is function overloading? Explain
- 9. Write a program to calculate the area of different shapes using function overloading
- 10. Explain the concept of default arguments with example
- 11. Write a program to find the factorial of a number
- 12. What is type casting? Explain about implicit and explicit typecasting

- 13. How will you define a class? Explain the syntax
- 14. What are the rules for defining friend functions? Explain
- 15. How will you define friend function? Explain with example
- 16. Define constructors. Write the rules for defining a constructor
- 17. What is a destructor? Explain with example
- 18. Write a simple program to implement the concept of constructors
- 19. Write a simple program to implement the concept of destructors
- 20. What is operator overloading? Give the rules of operator overloading

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- 21. Explain the syntax of operator overloading function
- 22. What is inheritance? Explain its types
- 23. Explain the rules for inheritance
- 24. Explain the concept of virtual base class
- 25. Explain the concept of abstract classes with example
- 26. What is a pointer? How will you create a pointer to a class?
- 27. Explain the concept of this pointer
- 28. Explain the usage of base class pointer and derived class pointers
- 29. List any 5 string functions with example
- 30. What is polymorphism? Explain its types
- 31. Explain conversion from class to basic type.
- 32. Explain conversion from class to class type.
- 33. Describe the use of public, private and protected visibility labels
- 34. Explain about input and output stream
- 35. With a diagram explain stream classes
- 36. How will you open a file? Explain its methods
- 37. What are the modes of opening a file? Explain
- 38. Write notes on get pointer and put pointer
- 39. How will you check EOF? Explain
- 40. How will you check errors in files ? Explain
- 41. What are command line arguments? Explain
- 42. What are sequential and random files
- 43. How will you read and write contents into sequential files?
- 44. How will you read and write contents in to random files?
- 45. Explain the concept of binary files with examples
- 46. What is exception handling? Explain

- 47. What are the types of exception? Explain
- 48. What are class templates? Explain the syntax of class template
- 49. What are function templates? Explain the syntax of function templates
- 50. Write a program to read the content of a file using command line arguments.

Section C

- 1. Explain the key concepts of OOP.
- 2. Discuss in detail about Formatted and Un-formatted I/O
- 3. Discuss about Object Oriented and Object based Programming Languages
- 4. Discuss about defining member function inside and outside the class
- 5. Explain in detail about different types of operators in C++
- 6. Explain in detail about Control structures in C++
- 7. Discuss about Looping structures in C++
- 8. Write a program to add two numbers using functions without arguments and without return types
- 9. Write a program to multiply two numbers using functions without arguments and with return types
- 10. Write a program to find the factorial of a numbers using functions with arguments and without return types
- 11. Write a program to find a factorial of a numbers using functions with arguments and with return types
- 12. Explain about classes and Objects
- 13. Write a program to implement the usage of classes and objects
- 14. Explain in detail about static data member with example
- 15. Explain about static member function with example
- 16. How will you pass objects as function arguments explain with example
- 17. Explain the concept of returning objects as arguments
- 18. Write a program to overload a binary operator using member function
- 19. Write a program to overload a binary operator using friend function
- 20. Write a program to overload a unary operator using member function
- 21. Write a program to overload a unary operator using friend function
- 22. What are the types of Constructors? Explain
- 23. Explain copy constructor with an example
- 24. Explain multiple constructor with an example

- 25. Write a program to implement the concept of single inheritance
- 26. Write a program to implement the concept of multiple inheritance
- 27. Write a program to implement the concept of multi-level inheritance
- 28. Write a program to implement the concept of hybrid inheritance
- 29. Explain with example about pointer to a array of classes
- 30. Discuss about array of pointers to class
- 31. How will you create a String object using string class? Explain
- 32. Explain the concept of Virtual functions with example
- 33. Explain the concept of pure virtual function with example
- 34. Explain the manipulator functions used for I/O formatting
- 35. Explain about file stream classes
- 36. Explain in detail about file I/O
- 37. Write a program to read and write contents into the file
- 38. Explain in detail about file pointes and their manipulations
- 39. Write a program to implement the file operations \bigcirc
- 40. Write a program using command line arguments to copy the contents of one file to another file with line numbers

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- 41. Write a program to implement the concept of sequential files
- 42. Write a program to implement the concept of random files
- 43. Write a program to find a student record using random files
- 44. Explain the usage of try throw and catch statements
- 45. How will you detect an exception? Explain with example
- 46. Write a program to implement the concept of multiple catch statements
- 47. Write program to implement the class template with single argument
- 48. Write program to implement the class template with multiple argument
- 49. Write program to implement the function template with single argument
- 50. Write program to implement the function template with multiple argument

ANSWERS

1. b) Bjarne Strustrup

2. d) extraction

3. c) int

4. a) class

5. a) class

6. a) allocates the memory~

7. b) function

8. a) Reusability

9. a) operator

10. a) Encapsulation

11. b) Bottom-up

12. b) Token

13. c) Inheritance

14. c) Function overloading

15. d) reference

16. a) iostream.h

17. c) field width

hiormation 18. a) scope resolution operator

19. b) abstraction

20. b) <<

21. b) inline

22. a) zero

23. b) bits

24. a):

25. b) private

26. a) friend

27. A) ~

object is created 28. a)

object goes out of scope 29. a)

30. a) new operator

31. b) public

32. a) class members

33. c) member functions

34. b) static

35. a) default constructor

36. b) parameterized constructor

37. a) tilde

38. a) class member and a class object

39. a) Global

40. b) local 41. a) base classes 42. b) reusability 43. a) single 44. c) multiple 45. a) hierarchical 46. b) multilevel 47. d) hybrid 48. c) operator overload 49. a) :: 458 technology 50. a) virtual 51. a) compile time 52. b) abstract class 53. d) 1 54. c) 0 55. d) 1 56. d) 1 57. a) 2 58. a) ++ 59. a) object 60. a) base class as well as derived class 61. b) dynamic 62. a) * 63. b) & 64. b) deallocates 65. a) allocation 66. a) dynamic 67. b) pointer 68. c) this 69. a) virtual function 70. c) polymorphism 71. c) input stream 72. d) stream buffer 73. b) get() 74. b) bit 75. unsetf() 76. a) no body 77. a) -> 78. a) Hello***** 79. b) reference 80. a) continuous memory location 81. b) ostream 82. a) end of file 83. a) storage

- 84. a) file
- 85. d) stream
- 86. c) file stream
- 87. b) input
- 88. d) 2
- 89. b) seekg()
- 90. d) command line
- 91. c) templates
- 92. b) close()
- 93. a) open()
- 94. c) multiple
- 95. a) non-zero value
- 96. c) Returns true if a file open for reading has reached the end.
- 97. c) ios::cur
- 98. d) seekg() and seekp()
- . already 99. b) If the file is opened for output operations and it already existed, its previous content is deleted and replaced by the new one.
- 100.

KONGUNADU ARTS AND SCIENCE COLLEGE (AUTONOMOUS) **COIMBATORE - 641 029**



QUESTION BANK **SUBJECT CODE: 15UIT510** A/SE INFORMATION NOVEMBER 2018 TITLE OF THE PAPER: CLIENT/SERVER COMPUTING

DEPARTMENT OF INFORMATION TECHNOLOGY

Prepared by **N. PAVIYASRE Department of Information TECHNOLOGY** Kongunadu Arts & Science College, Coimbatore - 29.

Kongunadu Arts & Science College (Autonomous) Department of INFORMATION TECHNOLOGY Question Bank CLIENT/SERVER COMPUTING CONTENTS

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SECTION - A

1	Client and conversion	a comparate entities that	woult to gother ever a r	atural
1.		-	work together over a n	
2	a. Physical	b. Logical	c. Scalability	d. Integrity
2.		many chents at the sar	ne time & regulate the	r access to shared
	resources.	1. 1'fC	Dhara's a 1	1 T 1
2	a. Same	b. different	c. Physical	d. Logical
3.	•	• •	g clients from the work	
	a. Horizontal	b. Vertical	c. Scalability	d. Integrity
4.	• • • •	ices are wanted by the	1	
	a. Provider	b. Consumer		red resources
5.	• •	-	quests for file records	
	a. File	b. database	c. object	d. web
6.		client passes SQL requ		4
	a. File	b. database	c. object	d. web
7.	In which server, the	client invokes remote	procedures that reside	s on the server.
	a. Database	b. Transaction	c. groupware	d. web
8.	Which is based on th	e stored procedures pr	ovided by the database	vendors?
	a. TP Lite	b. TP Heavy	c. TP Monitors	d. OLTP Vendors
9.	The Client/server app	plication is written as a	set of communicating	objects.
	a. Object	b. web	c. file	d. database
10	. By which client object	cts and server objects	will communicate?	
	a. OLTP	b. ORB	c. DCOM	d. HTTP
11	. In which protocol, th	e client and servers co	mmunicate using an R	PC like protocol.
	a. OLTP	b. HTTP	c. SMTP	d. FTP
12	. It is the multi server	building block implem	entation of client/serve	er.
	a. Intergalactic	b. Small shops	c. tiny shops	d. post-scarcity
13	. The building block th	nat runs on the client si	de of the application.	
		b. Server	c. Middleware	d. Client/Server
14	. By which element, th	ne client runs on a com	ponent.	
	a. OS	b. GUI	c. OOUI	d. DSM
15	. The client/server arcl	hitecture is suited for v	which environment.	
	a. LAN	b. WAN	c. MAN	d. WWW
16	. By which server add	resses the management	of semi-structured inf	ormation.
	a. Database	b. Groupware	c. Object	d. Web
17	. There is a many to o	-	en clients and server in	client/server
	system.	1		
	a. Asymmetric	b. Encapsulation	c. Service	d. Transparency
18	•	-	re loosely coupled sys	1 .
- 0	each other.	,		
	a. Message-based	b. Scalability	c. Transparency	d. Shared resources
19	U U	•	data are centrally main	
.,	a. Scalability	b. Integrity	c. Message-based	d. Service
		e. moginj		

20. By which is the tr	aditional form of client/se	erver system.	
a. File	b. Fat Client	c. Fat Server	d. Object
21. Which of the follo	wing is the part of an OS	5?	Ū
a. Base	b. Extended	c. Priority	d. Preemption
22. Which manageme	nt is the best in Multitask	king OS?	
a. Threads	b. Task	c. Semaphores	d. Protection
23. The mechanisms t	hat allows independent p	*	and share data.
a. IPC	b. Threads	c. Preemption	d. Priority
24. The system must	support very large progra	1	5
a. Local	b. Remote	c. Memory	d. Semaphores
25. The services that	provide flexible access to	•	*
a. Extended	b. TP Monitors	c. NOS	d. RPC
26. The multiprocessi	ng treats all processors as	s equals.	
a. Master	b. slave	c. Symmetric	d. Asymmetric
27. The Applications	are client-centric.		0
a. Client	b. Server	c. Client/Server	d. Middleware
28. In Client Anatom	y, how many types of clie	ents are classified?	
a. 3	b. 4	c. 5	d. 6
29. The metaphor is u	sed to provide information	on at our fingertips.	
a. GUI	b. Non-GUI	c. OOUI	d. OLE
30. By which transpar	ency, the users should no		
name.			
a. Location	b. Namespace	c. Logon	d. Failure
31. The transparency	should be able to provide	U	t works on all
servers.			
a. Logon	b. Replication	c. Administration	d. Local/Remote
32. The services that	allows network managers	to monitor user activity	ties.
	b. Authorization	c. Audit Trails	d. Encryption
33. The abbreviation			••
a. Message Obje	ct Method	c. Master Oriented 1	Method
	nted Middleware	d. Middleware Orie	nted Message
	ing the directory to find a		C
a. Binding	•	c. Automatic Bindir	ng d. Static Binding
35. The abbreviation			0
a. Distributed A	oplication Development	c. Data Application	Development
b. Distributed A		d. Data About Data	
	eal with a single system r		
a. Logon	b. Replication	c. Administration	d. Local/Remote
e e	e able to use the same nat		
the network.		8	
a. Location	b. Namespace	c. Logon	d. Failure
	e able to work with any r	•	
a. Logon	b. Replication	c. Administration	d. Local/Remote
	or reprodution		a. Local Romoto

39. This causes a periodic propagation to all the	replicas of all changes	s made on the
master.		
a. Skulking b. Immediate	c. Global directory	d. Distributed
40. This causes any update to the master to be in	nmediately shadowed	on all replicas.
a. Skulking b. Immediate	c. Global directory	d. Distributed
41. By which is used to manipulate information	collected in tables.	
a. Physical b. Logical	c. Commands	d. Integrity
42. It is used to define simple tables, complex of	pjects, indexes and acc	ess control.
a. Data definition b. Data Integrity	c. Adhoc Queries	d. Database
43. The user can defines to restrict the values of	what goes into the tab	le columns.
	c. Commands	d. Constraints
44. It is used to solve the SQL parts explosion pr		
	c. Framework	d. Foundation
45. A server manages the control and execution		3
-	c. SQL 92	d. SQL 3
46. This architecture protects the user from each	-	
from the users.		ine munger
a. SQL Database b. Process-per-client	c Multithreaded	d Hybrid
47. It provides the best performance by running		
address space.		is in the same
-	a COL Databaga	d Duccess non
a. Multithreaded b. Hybrid client	c. SQL Database	d. Process-per-
	, 	the common
48. It is a named collection of SQL statements an	na procedural logic in	the server
database.	- T	1 D-1-
	c. Triggers	d. Rules
49. It provides a proprietary language called stor		
	c. Triggers	d. Informix
50. A special type of trigger that is used to perfo		
	c. Sybase	d. Oracle
51. The systems that are used to create application	ons in all walks of bus	iness.
a. DSS b. EIS	c. OLTP	d. TP
52. They are used to analyze data and create repo	orts.	
a. OLTP b. DSS	c. EIS	d. OLAP
53. It is more powerful, easy-to-use than the dec	ision support systems.	
a. OLAP b. DSS	c. EIS	d. OLTP
54. In client/server environment, that is the repos	sitory of data for decis	ion-support
processing.		
a. SQL b. Database	c. Oracle	d. Data warehouse
55. The level of metadata describes the content of	of data to an information	on hound.
	c. replication	d. information
56. It allows us to transmit the aggregations of d	-	-
	c. Replicas	d. Subsets
	reprious	

57. It allows us to transmit only the rows and columns that are interest to our				
informational appl	ications.			
a. Derived	b. Aggregates	c. Subsets	d. Replicas	
58. It allows us to spec	cify data that does not	exist.		
a. Replicas	b. Derived	c. Aggregates	d. Subsets	
59. The data manager	manages the copying a	and distribution of data	across databases.	
a. Replication	b. Directory	c. EIS/DSS	d. DBA	
60. The information co	ombines the functions	of a technical directory	and information	
navigator.				
a. Replication	b. Directory	c. EIS	d. DSS	
61. A transaction is an	indivisible unit of wo	rk.		
a. Atomicity	b. Consistency	c. Isolation	d. Durability	
62. In this transaction,	after executes a transa	action, it must leave the	system in a correct	
state.				
•	b. Consistency		d. Durability	
63. A transactions beh	avior is not affected by	y other transactions that	execute	
concurrently.				
a. Atomicity	b. Consistency	c. Isolation	d. Durability	
64. A transaction's eff	fects are permanent after			
a. Atomicity	b. Consistency	c. Isolation	d. Durability	
		itself and resume after		
a. CAD	b. ACID	c. Flat	d. Nested	
66 The transactions a	re variations of sync no	pints that make the accu	mulated work	
	te variations of syne p	sind that make the deed		
durable.				
durable. a. Nested	b. Chained	c. Sagas	d. Transactions	
durable. a. Nested 67. This transaction w	b. Chained ill extend the chained t	c. Sagas transaction to rollback t	d. Transactions he entire chain.	
durable. a. Nested 67. This transaction w a. Nested	b. Chained ill extend the chained t b. Chained	c. Sagas transaction to rollback t c. Sagas	d. Transactions he entire chain. d. Transactions	
durable. a. Nested 67. This transaction w a. Nested 68. The transaction pro	b. Chained ill extend the chained t b. Chained	c. Sagas transaction to rollback t	d. Transactions he entire chain. d. Transactions	
durable. a. Nested 67. This transaction w a. Nested 68. The transaction pr applications.	b. Chained ill extend the chained t b. Chained ovides robust run-time	c. Sagas transaction to rollback t c. Sagas environments support 1	d. Transactions he entire chain. d. Transactions large-scale OLTP	
durable. a. Nested 67. This transaction w a. Nested 68. The transaction pro applications. a. OLAP	b. Chained ill extend the chained t b. Chained ovides robust run-time b. process	c. Sagas transaction to rollback t c. Sagas environments support i c. Transaction	d. Transactions he entire chain. d. Transactions large-scale OLTP d. TP Monitors	
durable. a. Nested 67. This transaction w a. Nested 68. The transaction pra applications. a. OLAP 69. The management i	b. Chained ill extend the chained t b. Chained ovides robust run-time b. process	c. Sagas transaction to rollback t c. Sagas environments support 1	d. Transactions he entire chain. d. Transactions large-scale OLTP d. TP Monitors	
durable. a. Nested 67. This transaction w a. Nested 68. The transaction pro applications. a. OLAP 69. The management in balancing.	 b. Chained ill extend the chained to b. Chained ovides robust run-time b. process ncludes starting server 	c. Sagas transaction to rollback t c. Sagas environments support c. Transaction processes, funneling, r	d. Transactions he entire chain. d. Transactions large-scale OLTP d. TP Monitors nonitoring and load	
durable. a. Nested 67. This transaction w a. Nested 68. The transaction pro- applications. a. OLAP 69. The management in balancing. a. Process	 b. Chained ill extend the chained to b. Chained ovides robust run-time b. process ncludes starting server b. Transaction 	c. Sagas transaction to rollback t c. Sagas environments support c. Transaction processes, funneling, r c. Business	d. Transactions he entire chain. d. Transactions large-scale OLTP d. TP Monitors nonitoring and load d. Flat	
durable. a. Nested 67. This transaction w a. Nested 68. The transaction pro- applications. a. OLAP 69. The management in balancing. a. Process 70. The management t	b. Chained ill extend the chained to b. Chained ovides robust run-time b. process ncludes starting server b. Transaction that it guarantees the A	c. Sagas transaction to rollback t c. Sagas environments support c. Transaction processes, funneling, r	d. Transactions he entire chain. d. Transactions large-scale OLTP d. TP Monitors nonitoring and load d. Flat	
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durable. a. Nested 67. This transaction w a. Nested 68. The transaction pro- applications. a. OLAP 69. The management in balancing. a. Process 70. The management of under its protection a. Process 71. The Groupware is processes that cent a. Client	 b. Chained ill extend the chained to b. Chained ovides robust run-time b. process ncludes starting server b. Transaction that it guarantees the A n. b. Transaction a collection of technol ter around human active b. Server 	c. Sagas transaction to rollback t c. Sagas environments support f c. Transaction processes, funneling, r c. Business CID properties to all pr c. Business ogies that allows us to r tities. c. Client/server	d. Transactions he entire chain. d. Transactions large-scale OLTP d. TP Monitors nonitoring and load d. Flat ograms that run d. Flat represent complex d. Middleware	
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durable. a. Nested 67. This transaction w a. Nested 68. The transaction pro- applications. a. OLAP 69. The management in balancing. a. Process 70. The management to under its protection a. Process 71. The Groupware is processes that centor a. Client 72. The workflows are procedures. a. Routes	 b. Chained ill extend the chained to b. Chained ovides robust run-time b. process ncludes starting server b. Transaction that it guarantees the A n. b. Transaction a collection of technol ter around human active b. Server e used to automate busic b. Rules 	c. Sagas transaction to rollback t c. Sagas environments support f c. Transaction processes, funneling, r c. Business CID properties to all pr c. Business logies that allows us to r vities. c. Client/server iness systems that have c. Roles d. P.	d. Transactions he entire chain. d. Transactions large-scale OLTP d. TP Monitors nonitoring and load d. Flat rograms that run d. Flat represent complex d. Middleware some policies and	
durable. a. Nested 67. This transaction w a. Nested 68. The transaction pro- applications. a. OLAP 69. The management in balancing. a. Process 70. The management to under its protection a. Process 71. The Groupware is processes that centor a. Client 72. The workflows are procedures. a. Routes	 b. Chained ill extend the chained to b. Chained ovides robust run-time b. process ncludes starting server b. Transaction that it guarantees the A n. b. Transaction a collection of technol ter around human active b. Server e used to automate busic b. Rules 	c. Sagas transaction to rollback t c. Sagas environments support f c. Transaction processes, funneling, r c. Business CID properties to all pr c. Business logies that allows us to r vities. c. Client/server iness systems that have	d. Transactions he entire chain. d. Transactions large-scale OLTP d. TP Monitors nonitoring and load d. Flat rograms that run d. Flat represent complex d. Middleware some policies and	

74. This defines the pat	h along which the obje	ect moves.	
a. Rules	b. Routes	c. Roles	d. Workflow
75. This defines that wl	hat information is route	ed and to whom.	
a. Workflow	b. Routes	c. Rules	d. Roles
76. This defines the job	functions independent	tly of the people who d	o it.
a. Workflow	b. Routes	c. Rules	d. Roles
77. The splits are used	to explode an object in	to many parts.	
a. And	b. Or	c. Route	d. Workflow
78. The splits are used	to peel off a few parts t	from a group.	
a. And	b. Or	c. Route	d. Workflow
79. The joins allows cer			
a. Route	b. Workflow	c. Or	d. And
30. The joins are used t			
a. Route	b. Workflow	c. Or	d. And
		cheme for specifying I	
	ntable ASCII character		
a. URL	b. HTML	c. HTTP	d.FTP
82. The Scheme tells th			
		internet protocor to use	when accessing a
resource on a server		A Dott number	d Dath name
a. Protocol	b. Server name	c. Port number	d. Path name
83. This is usually an ir	iternet nost domain nai	me that identifies the si	te on which the
server is running.		G	
a. Port number	b. Path name	c. Server name	d. Protocol
84. This identifies a pro			
a. Protocol	b. Server name	c. Port number	d. Path name
85. The resource starts			
a. Port number	b. Path name	c. Server name	d. Protocol
36. They are non-case-	sensitive commands su	rrounded by angle brac	kets.
a. Text	b. GUI	c. Tags	d. HTML
87. This contains the U	RL of the external pict	ure file or the name of	a local file.
a. Tags	b. OL	c. UL	d. SRC
88. This contains full he	ostname and filename	of the target document.	
a. Absolute	b. Relative	c. Local	d. Anchor
89. This means that the	target's hostname and	starting directory for the	he path of the anchor
tag.	-		-
a. Absolute	b. Relative	c. Local	d. Anchor
90. The file resides on t	he client machine, not	on the web server.	
a. Absolute	b. Relative	c. Local	d. Anchor
91. The HTTP consists			
a. Request line	b. request header	c. entire body	d. HTTP methods
92. This field passes ad	-	•	
a. Request line	b. request header	c. entire body	d. HTTP methods
93. The client passes bu	-	•	a. III II memous
-			d UTTD mathada
a. request header	b. Request line	c. entire body	d. HTTP methods

94. This includes within both request and response messages.					
a. Ge	neral	b. Request	c. Response	d. Entity	
95. This ca	in only appear	within request messag	es.		
a. Ge	neral	b. Request	c. Response	d. Entity	
96. This ca	an only appear	within response messa	iges.		
a. Ge	neral	b. Request	c. Response	d. Entity	
97. This ca	in only appear	within request or respo	onse messages.		
a. Ge	neral	b. Request	c. Response	d. Entity	
98. This pr	operty specifie	es an input type, which	may be either text or i	mage.	
a. TY	ΎРЕ	b. NAME	c. VALUE	d. SELECT	
99. This ta	99. This tag is used to create multiline data entry fields.				
a. TE	XTAREA	b. SELECT	c. TABLE	d. CAPTION	
100. This is used to protect the private Intranets from the internet hordes.					
a. En	cryption	b. Authentication	c. Firewalls	d. Repudiation	
				う	

SECTION - B

- 1. What is Client/server? Explain any 5 characteristics of client/server.
- 2. Explain about the concept of file server.
- 3. Discuss about the concept of object server and web server.
- 4. Write short notes on client/server building blocks.
- 5. Explain about the concept of client/server for intergalactic enterprise.
- 6. Explain about the concept of fat servers or fat clients.
- 7. Discuss about the concept of client/server for a post-scarcity world.
- 8. Explain the concept of Inside the Building Blocks.
- 9. Discuss about the concept of client/server for small shops and departments.
- 10. Explain about the concept of Groupware server.
- 11. Explain about the anatomy of a server program.
- 12. What does a server need from an OS? Explain its base services.
- 13. Write short notes on Server Scalability.
- 14. Discuss about the Non GUI Clients in client anatomy.
- 15. Explain about the concept of OOUI Clients.
- 16. Difference between GUI Verses OOUI.
- 17. What does Transparency Really mean?
- 18. Comparing the difference between MOM Verses RPC.
- 19. Write short notes on Remote Procedure Call.
- 20. Explain about the concept of Distributed Time Services
- 21. What does SQL do?

- 22. Explain about the concept of ISO Standards of SQL 89 and SQL 92.
- 23. Discuss about the concept of ISO Standards of SQL 3.
- 24. What does a Database server do?
- 25. Write short notes on Stored Procedure?
- 26. Difference between Stored Procedure verses Static and Dynamic SQL.
- 27. Discuss about the concept of Triggers and Rules.
- 28. Explain the concept of OLTP.
- 29. Discuss about the concept of Decision Support Systems.
- 30. Explain about the concept of Executive Information System.
- 31. Explain about the concept of ACID Properties.
- 32. Write about the Nested Transactions in Transaction Models.
- 33. What is a TP Monitor? Discuss about it.
- 34. Write short notes on TP Monitors and Transaction Management.
- 35. Difference between Transactional verses Non-Transactional Communications.
- 36. What is Groupware? How is groupware different from SQL Databases?
- 37. Write short notes on Workflow Models?
- 38. Explain the concept of Workflow Splits and Joins.
- 39. Discuss about the concept of Object Request Broker.
- 40. Explain about the Compound Documents.
- 41. What is a URL? Explain about it.
- 42. Explain about the concept of Hyperlinks.
- 43. Discuss about the concept of HTTP.
- 44. What does an HTTP Request look like?
- 45. What does an HTTP Response look like?
- 46. Explain about the concept of HTTP Methods.
- 47. Discuss about the concept of HTML 3.0 Tables.
- 48. Explain the concept of Web Security.
- 49. Discuss about the concept of the Internet and Intranets.
- 50. Explain about the concept of CORBA Object web.

SECTION - C

- 1. What is client/server? Explain in detail about the concept of characteristics of client/server.
- 2. Discuss in detail about the concept of File, Database and Transaction servers.
- 3. Discuss in detail about the concept of Groupware, Object and Web servers.
- 4. Explain in detail about any 4 types of servers.
- 5. What is client/server? Explain in detail about the concept of fat servers /fat clients.
- 6. Discuss in detail about the concept of client/server building blocks.
- Illustrate the concept of client/server for tiny shops and nomadic tribes and client/server for small shops and departments.
- Discuss in detail about the concept of Intergalactic enterprises and client/server for a post-scarcity world.
- 9. What is client/server? Explain in detail about the concept of inside the building blocks.
- 10. What is building block in client/server? Explain about the concept of client/server a one size fits all model.
- 11. What does a server need from an OS? Explain in detail about the base services.
- 12. Discuss in detail about the concept of Extended Services.
- 13. Elaborate the concept of Server Scalability.
- 14. Explain in detail about the Client Anatomy.
- 15. What does a client need from an OS? Explain in detail.
- 16. Discuss in detail about the concept of Client OS and its trends.
- 17. Illustrate the concept of Server OS.
- 18. Discuss in detail about the concept of Distributed Security Services.
- 19. Explain in detail about the concept of Remote Procedure Call.
- 20. Explain about the concept of Messaging and Queuing, the MOM Middleware.
- 21. Explain in detail about the ISO Standards of SQL 89 and SQL 92.
- 22. Discuss in detail about the concept of SQL Database Server Architectures.
- 23. Discuss in detail about the concept of OLTP, DSS & EIS.
- 24. Discuss about the comparison of Production Verses Informational Databases.
- 25. Explain in detail about the concept of Data Warehouse.
- 26. Discuss in detail about the concept of the mechanics of data replication.
- 27. Illustrate the concept of Stored Procedure, Triggers and Rules.
- 28. What does SQL do? Discuss about the concept of the ISO Standards of SQL 3.

- 29. Explain in detail about the concept of a database server.
- What is a data warehouse? Explain about the concept of the elements of Data Warehousing.
- 31. Explain in detail about the concept of Transactional Models.
- 32. Discuss about the concept of the components of Groupware.
- 33. Discuss about the concept of Distributed Objects, CORBA Style.
- 34. Explain in detail about OMG's Object Management Architecture.
- 35. Explain about the concept of The Anatomy of a CORBA 2.0 ORB.
- 36. Discuss about the concept of Compound Documents.
- 37. Illustrate the concept of the Compound Document Framework.
- 38. Discuss in detail about the concept of the Limitations of the Flat Transaction.
- 39. Explain in detail about the concept of Transactional RPCs, Queues and Conversations.
- 40. Explain about the concept of the components of Groupware.
- 41. What is a URL? Discuss about the concept of the World's Shortest HTML Tutorial.
- 42. Discuss in detail about the concept of General Structure of an HTML Document.
- 43. What is HTTP? Discuss about the HTTP Data Representations.
- 44. Explain in detail about HTML 2.0's Web-based Forms.
- 45. Explain in detail about the concept of HTML 3.0 Tables.
- 46. Discuss in detail about the concept of CGI: The Server side of the web.
- 47. Illustrate the concept of Web Security.
- 48. Discuss in detail about the concept of Electronic Payments in HTTP.
- 49. Explain in detail about the Compound Documents and the Object Web.
- 50. Explain about the concept of the DCOM/OLE object web.

1. a	46. a	91. c
2. b	47. b	92. a
3. a	48. a	93. b
4. b	49. a	94. c
5. a	50. d	95. a
6. b	51. b	96. b
7. b	52. c	97. c
8. a	53. b	98. d
9. a	54. c	99. a
10. b	55. d	100. a
11. b	56. b	
12. a	57. a	
13. a	58. c	A
14. b	59. b	
15. a	60. a	0,
16. b	61. b	0.
17. a	62. a	0
18. a	63. b	
19. b	64. c	
20. b	65. d	nology
21. a	66. a	
22. b	67. b	
23. a	68. c	
24. c	69. d	
25. a	70. a	
26. с 27. с	71, b 72. c	
27. c 28. c	73. d	
28. c 29. c	73. d 74. a	
30. a	75. b	
31. a	76. c	
32. c	74. a 75. b 76. c 77. d 78. a	
33. b	78. a	
34. b	79. b	
35. a	80. c	
36. c	81. d	
37. b	82. a	
38. d	83. a	
3 9. a	84. c	
40. b	85. c	
41. c	86. b	
42. a	87. c	
43. d	88. d	
44. a	89. a	
45. a	90. b	

WASCHMORTAGE MADE

KONGUNADU ARTS AND SCIENCE COLLEGE (AUTONOMOUS) **COIMBATORE - 641 029**



QUESTION BANK

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Department of INFORMATION TECHNOLOGY

Question Bank

COMPUTER ORGANIZATION AND ARCHITECTURE

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SECTION - A

1	X 71	· · · · · · · · · · · · · · · · · · ·			
1.		ase value for de		•	
2	a. 2	b. 8	c. 10	d. 16	
Ζ.		ase value for or			
2	a. 2	b. 8	c. 10	d. 16	
3.		ase value for bi			
	a. 2	b. 8	c. 10	d. 16	
4.		ase value for he		-	
	a. 2	b. 8	c. 10	d. 16	
5.	Which numb	-	-	ell as numerals?	
	a. Binary	b. Octal	c. Decimal	d. Hexadecimal	
6.	How many b	its are there in c	one nibble?		A
	a. 2	b. 4	c. 8	d. 16	4
7.	What will be	the output, if 1	as input to an	inverter?	2
	a. 1	b. 0	c. A	d. Reverse of A	
8.	Which of the	following bina	ry numbers is e	quivalent to decimal n	umber 24?
	a. 11011	b. 11000	c. 11111	d. 11001	
9.	What is the n	ame of the first	part in floating	g point representation?	
	a. Integral	b. Fractional	c. Mantissa	d. Exponent	
10.	What is the n	ame of the seco	ond part in float	ing point representation	on?
		b. Fractional			
11.	What is the o	ther name for C	Gray code?	-	
	a. Cyclic	b. Acyclic	c. Inverse	d. Nibble	
12.	What will be	the output for 1	10100 to Gray	code?	
	a. 101110	b. 101111		d. 101100	
13.		the output for (
	a. 439	b. 239	c. 456	d. 478	
14.		xcess3 code of			
		b. 0100 0111		d. 0011 1011	
15.		hange of 1's co			
	a. 0 to 1	b. 1 to 0	c. 1 to 1	d. 0 to 0	
16.		ess decimal num			
101	-	b. 01000101			
17		the output of 1			
17.	a. 10011	b. 10001	c. 10011	d. 11111	
18		the output for 1			
10.	a. 111011	b. 111111	c. 100000	d. 000111	
10				u. 000111	
19.	a. AND $+$ NC	h by NAND gat	+ NOT	a Inverse of AND	d Inverse of OD
20				c. Inverse of AND	d. Inverse of OR
20.		n by NOR gate		a Inverse of AND	d Inverse of OD
0.1	a. NOT + AN		T + OR	c. Inverse of AND	d. Inverse of OR
21.	-	puts and output			
	a. 2,1	b. 2,2	c. 3,1	d. 3,2	

22. What is the designator minterm of AB'CD)?	
a. 4 b. 5 c. 11	d. 15	
23. What is the function value of maxterm?		
a. 0 b. 1 c1	d. 2	
24. Which circuit performs the addition of 2 b	its?	
a. Half adder b. Full adder	c. AND	d. OR
25. Which circuit performs the addition of 3 b	its?	
a. Half adder b. Full adder	c. AND	d. OR
26. What is the function value of minterm?		
a. 0 b. 1	c1	d. 2
27. What is the output of adder?		
a. Carry b. Borrow	c. Sum	d. Difference
28. What is the output of subtractor?		•
a. Carry b. Borrow	c. Sum	d. Difference
29. What is the another name for k-map?		9
a. venn b. veitch	c. Data flow	d. square
30. What is the formation of 2 number of 1's i		1
a. Pair b. Quad	c. Octet	d. Square
31. What is the formation of 4 number of 1's i		1
a. Pair b. Quad	c. Octet	d. Square
32. What is the formation of 8 number of 1's i		
a. Pair b. Quad	c. Octet	d. Square
33. What is the symbol used to group the 1 in		a. Square
a. D b. O	c. X	d. Q
34. What is the abbrevation for BCD Adder?	0. 11	u. Q
a. Binary Coded Decimal	c. Bit Coded Decim	9]
b. Binary Carry Decimal	d. Bit Carry Decima	
35. How to analyze and Simplify the digital ci	•	11
a. Boolean Algebra b. Pair		atat
	•	
36. How many types of laws in Boolean Algel a. 4 b. 5 c. 6	d. 7	
		a not have any affect
37. Which law states that changing the sequen	ice of the variables doe	is not have any effect
on the output of a logic circuit?	Distributions	1 Тилина'н и
a. Commutative b. Associative	c. Distributive	d. Inversion
38. Which law states that the order in which the lo	ogic operations are perfor	rmed is irrelevant as
their effect is the same? a. Commutative b. Associative	c. Distributive	d. Inversion
39. Which law states that double inversion of iteralf?	a variable results in the	e original variable
itself?	a Invonsion	d Distribution
a. Commutative b. Associative 40 Which have states that if $A + B = B + A^2$	c. Inversion	d. Distributive
40. Which law states that if $A+B = B+A$?	. I	d Distailenting
a. Commutative b. Associative	c. Inversion	d. Distributive

41 By which storage	device is used to store	1-bit binary information	19
a. Decoder		c. Multiplexer	d. Demultiplexer
	K flipflop both the J an	-	a. Demaniplexer
a. AND	b. NAND	c. OR	d. NOT
	of flipflops is used to st		u. 1001
• •			d Dinala
a. Counters	b. Registers	c. Full Adder	d. Ripple
	er name of Asynchron		1
a. Counters	e	c. Full Adder	d. Ripple
45. What a register ca			
a. Number of fli	p flops b. AND g	gates c. OR gates	d. flip flops
46. A combinational	circuit that converts bi	nary information from n-	input lines to a
maximum of 2 ⁿ o	utput lines.		
a. Encoder	b. Multiplexer	c. Decoder	d. Demultiplexer
47. A combinational	circuit that select bina	ry information from one	of many input lines
	a single output line.		
a. Encoder	b. Multiplexer	c. Decoder	d. Demultiplexer
48. What is the anoth	ner name of Multiplexe		
a. data reflector	b. data selector	c. data generator	d. data producer
	-	clocked sequential circu	
a. logic	b. gates	c. flip flops	d. registers
	p-flop is called as dire		
	JK c. D	d. T	
a. dynamic b.	her name of D Flip flop discrete c. distance		
•		s through a prescribed se	auence of states
upon the input p		s through a preserioed se	quence of states
	Multiplexer c. Counter	d. Register	
	ounter will follows the	-	
	BCD c. decimal		
		able for holding binary in	nformation?
	Multiplexer c. Counter		
		ata stored in registers?	
a. macro b.		tic d. logic	
	gister holds the address		
	0	Processor d. Register as the bulk of data proces	sing operations?
a. Memory unit	b. CPU c.		
•		such a manner that the it	-
retrieved first?			
		r d. Memory	
• • •	ster that holds the add		
	Pointer c. counter	e	anon no ristone?
		a from memory to proces	
		erands to and from memo	
register?	op		J
-	MOV c. LOAD	d. ADD	

• •	nplied accumulator register for all data manipulation?
a. three-address b. two-ad	ldress c. one-address d. zero-address
63. Which type of allows a person to e	enter alphanumeric information directly?
a. mouse b. light pen c.	keyboard d. joy stick
64. Which command is issued to activa	ate the peripherals and to inform it what to do?
a. control b. status c.	data output d. data input
65. Which input is used by the DMA c the buses?	controller to request the cpu to relinguish control of
a. busgrant b. busrequest c.	
56. Which allows the DMA controller	to transfer one data word at a time?
a. busgrant b. busrequest c.	cyclestealing d. baud rate
57. Which equipmentis used for storing	g files of data?
a. magnetic disk b. magnet	ic tape c. floppy disk d. compact disk
58. Which command is used to test var peripherals?	rious status conditions in the interface and the
a. control b. status c.	data output d. data input
59. Which command causes the interfa	ace to respond by transferring data from the bus into
one of its registers?	
a. control b. status c.	data output d. data input
70. Which command is the opposite of	f the data output?
a. control b. status c.	data output d. data input
71. Which allows the DMA controller	to transfer one data word at a time?
a. busgrant b. busrequest c.	cyclestealing d. baud rate
72. What procedure is used to identify	the highest-priority source by software means?
a. polling b. priority c.	trap d. channel
73. Which memory unit that commun	icates directly with the cpu?
a. main b. auxiliary c.	cache d. associative
74. Which devices that provide backu	
a. main b. auxiliary c.	cache d. associative
75. Which memory is a special very h	
a. main b. auxiliary c.	
76. Which part of the computer syster	n that supervises the flow of information between
auxiliary memory and main memo	pry?
a. memory management system	b. multitasking system
c. multiprogram system	d. system management
77. What type is required to position t	he read/write head to a location.
a. seek time b. transfer time	c. access time d. mode time
78. What type of required to transfer of	lata to or from the device.
a. seek time b. transfer time	c. access time d. mode time
79. What type of bits are stored in the	magnetized surface in spots along concentric circles?
a. tracks b. sectors c.	seek d. transfer
80. Which type of disk that is permane	ently attached to the unit?
a. hard disk b. floppy disk c.	compact disk d. track
81. What type of memory unit accesse	ed by content?
a. main b. auxiliary c.	cache d. associative
82. How the performance of cache me	emory is frequently measured in terms of a quantity?
a. miss b. hit c.	mapping d. hit ratio
83. How the cpu refers to memory and	d finds the word in cache?
a. miss b. hit c.	mapping d. hit ratio
84. What is the average time required	to reach a storage location in memory?
a. seek time b. transfer time	c. access time d. mode time

95 Which register used to distinguish between estive and inactive words?
85. Which register used to distinguish between active and inactive words? a. tag b. hit c. mapping d. hit ratio
a. tag b. hit c. mapping d. hit ratio 86. What is the transformation of data from main memory to cache memory?
11 0
87. What type of address used by a programmer? a. virtual address b. physical address c. address space d. memory space
88. Which address used in main memory?
a. virtual address b. physical address c. address space d. memory space
89. How the physical memory is broken down into groups of equal size? a. virtual address b. physical address c. blocks d. tracks
90. What is the speed memory between the main memory and the CPU called?a. Registerb. Cachec. Storaged. Virtual
a. Register b. Cache c. Storage d. Virtual 91. What is the difference between data at a location in cache is different from the data
located in the main memory?
a. Unique b. Inconsistent c. Variable d. Fault 92. Which of the following is not a write policy to avoid Cache Coherence?
0
93. Which of the following is an efficient method of cache updating?a. Snoopy writesb. Write throughc. Write withind. Buffered write
94. What is the size of the cache memory?
a. 160 kbits b. 130 kbits c. 40 kbits d. 30 kbits
95. Which memory is used to reduce the average time to access data from the Main memory?
a. main b. auxiliary c. cache d. associative
96. Which memory is the fastest memory that has faster access time?
a. main b. auxiliary c. cache d. associative
97. By Which memory the data stays permanently?
a. main b. secondary c. cache d. associative
98. In which memory data is stored and accepted that are immediately stored in CPU?
a. main b. secondary c. cache d. register
99. How many types of mapping is used for the purpose of cache memory?
a. 4 b. 3 c. 2 d. 5
100. Which memory is used to store content and addresses both of the memory word?
a. Direct b. Associative c. Set-Associative d. Register
KASC

SECTION - B

- 1. Elaborate on Number systems.
- 2. Convert the following decimal 21.6 to binary equivalent.
- 3. Convert the Octal 623.77 to decimal, binary and hexadecimal.
- 4. Convert decimal 1993 to a binary number.
- 5. Convert A92₁₆ to octal.
- 6. Convert the following decimal number 34.56_{10} into octal and hexadecimal.
- 7. Convert $(342.45)_{10}$ to octal and binary form.
- 8. Write short notes on NOR Gate. Explain in detail.
- 9. Explain different basic gates with truth table.
- 10. Write short notes on: a. Excess3 code b. Gray Code
- 11. Explain about the concept of Half Adder.
- 12. What is Karnaugh map? Explain about it.
- 13. Find the minimal expression for the Boolean function. $f(A,B,C) = \sum (0,2,4,6)$
- 01001 14. What do you mean by don't care condition on k –map? Explain.
- 15. Discuss about the concept of Parallel Binary Adder.
- 16. Explain about the concept of Half Subtractor.
- 17. Explain Sum of products in k-map with an example.
- 18. Discuss about the concept of BCD Adder with an example.
- 19. Explain products of sum in k-map with an example.
- 20. Find the minimal expression for the Boolean function. $f(A,B,C) = \sum (0,1,2,3,4,6)$
- 21. Write about the Master slave JK flip flop in detail.
- 22. Draw and explain the working of RS flip flop.
- 23. What is stack? Explain its organization methods.
- 24. Write short notes on Asynchronous data transfer.
- 25. What is Encoder? Explain about it.
- 26. Explain about the concept of General Register Organization.
- 27. Discuss about the Memory-mapped I/O in I/O interface.
- 28. Why we need I/O Interface?
- 29. What is priority interrupt? Explain the Daisy- chaining priority.
- 30. Explain the four types of commands in I/O bus and Interface modules.
- 31. Explain memory hierarchy in memory organization.
- 32. Write short notes on CPU-IOP communication.
- 33. Write about the concept of Associative memory.
- 34. Write short notes on read and write operations in associative memory.
- 35. Write short notes on Input-Output Processor.
- 36. Explain about the Memory Address map in Main memory.
- 37. Write short notes on Main memory.
- 38. Explain RAM and ROM chips in main memory.
- 39. Write short notes on Hardware organization of Associative memory.
- 40. Write short notes on Match logic of Associative memory.
- 41. Explain about the concept of Page Replacement.
- 42. Write short notes on cache memory.
- 43. Explain the concept of Associative mapping in cache memory.
- 44. Explain the concept of direct mapping in cache memory.
- 45. Address Space and Memory Space in Virtual memory.
- 46. Address mapping using pages in virtual memory.

- 47. Describe cache memory.
- 48. Describe virtual memory.
- 49. Explain about the Page Table.
- 50. Discuss about the concept of Writing into cache Initialization.

SECTION – C

- 1. Convert the following decimal 2745.1873 into binary, octal and hexadecimal.
- 2. Explain in detail about the BCD Adder.
- 3. Describe about the floating point representation with an example.
- 4. Elaborate on logic gate with neat diagram and truth table.
- 5. Convert the following hexadecimal CD42.1297 into binary, octal and decimal.
- 6. Explain in detail about the Binary Adder, Multiplication and Division with an example.
- 7. Discuss in detail about the complements with an example.
- 8. Convert the following octal 6237.1234 into binary, decimal and hexadecimal.
- 9. Convert the following binary 1101101011 into octal, decimal and hexadecimal.
- 10. Discuss in detail about BCD Adder, Excess3 and Gray code with an example.
- 11. Find the minimal expression for the switching function. $f(A,B,C,D) = \sum (0,1,2,3,4,6,8,9,10,11,12,14)$
- 12. Explain in detail about Karnaugh map.
- 13. Explain Product of Sum with K-map.
- 14. Discuss about Sum of Product with K-map.
- 15. Minimize the function f= A'BC+A'B'C+A'B'C'+A'BC' using k-map.
- 16. Explain in detail about K-map construction with its properties.
- 17. Explain in detail about Full Adder with an example.
- 18. Elaborate the concept of Parallel Binary Adder & Subtractor with its neat diagram.
- 19. Explain in detail about don't care combinations with an example.
- 20. Discuss about the concept of SOP and POS of K-map.
- 21. Explain in detail about the RS and JK Flip-flop.
- 22. Explain in detail about Stack Organization.
- 23. Explain about the concept of General Register Organization.
- 24. Discuss in detail about the concept of Instruction formats in CPU.
- 25. Elaborate the concept of data transfer and manipulation of program control.
- 26. Explain in detail about the concept of I/O interface in I/O Organization.
- 27. Discuss in detail about the concept of Encoder and Decoder.
- 28. Describe in detail about Priority Interrupt.
- 29. Explain about the Strobe Control & Handshaking in Asynchronous Data Transfer.
- 30. Discuss about the concept of Demultiplexer with an example.
- 31. Explain about the CPU-IOP Communication in detail.
- 32. What is the use of Asynchronous Data Transfer? Explain.
- 33. Elaborate the concept of Main memory.
- 34. Explain the need functions and usages of the main memory.
- 35. Explain the Hardware Organization and Match Logic of Associative memory.
- 36. Write a short note on Associative memory. Explain about it.
- 37. Explain in detail about Read and Write operation in Memory Organization.
- 38. Discuss in detail about the concept of Input-Output Processor.
- 39. Describe about the Memory Organization in detail.
- 40. Explain in detail about the Memory Organization.

- 41. Elaborate about the Cache memory.
- 42. Describe about the concept of Associative & Direct Mapping.
- 43. Explain about the Set-Associative mapping in detail.
- 44. Discuss about the Address space and Memory Space in Virtual Memory.
- 45. What is Address mapping using pages? Explain it.
- 46. Explain about the Associative Memory Page Table.
- 47. What is Page Replacement? Explain in detail.
- 48. Discuss about the Writing into cache initialization.
- 49. Elaborate about the Main memory in Memory Organization.
- 50. Explain about the Virtual Memory in detail.

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	45. a	90. b
1. c	46. c	91. b
2. b	47. b	92. b
3. a	48. b	93. a
4. d	49. c	94. a
5. d	50. a	95. c
6. b	51. d	96. c
7. b	52. c	97. b
8. b	53. a	98. d
9. a	54. d	99. b
10. b	55. a	100. b
11. a	56. b	
12. a	57. b	
13. a	58. b	
14. b	59. b	
15. a	60. b	
16. a	61. c	~
17. a	62. b	
18. a	63. c	
19. a 20. b	64. a	
20. b 21. d	65. b	nnology
21. u 22. c	66. c	
22. c 23. a	07. D	
23. a 24. a	68. b	
25. b	69. c 70. d	
26. b	71. c	
27. c		
28. d	73. a	
29. b	74. b	
30 . a	75. c	
31. b	76. a	
32. c	72. a 73. a 74. b 75. c 76. a 77. a	
33. c	78. b	
34. a	79. a	
35. a	80. a	
36. c	81. d	
37. a	82. d	
38. b	83. d	
39. c	84. c	
40. a	85. a	
41. b	86. c	
42. a	87. a	
43. b	88. b	
44. d	89. c	

WAS CHIMOM AND A SCHMOLOGY

KONGUNADU ARTS AND SCIENCE COLLEGE (Autonomous)

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QUESTION BANK OLOGY

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TITLE OF THE PAPER: C PROGRAMMING

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PREPARED BY

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	Section C Key for Section A	echnology

SECTION A

1.	The statement begins with /* and ends with */ is called
	a) online b) offline c) comment d) executable
2.	Which operator is applied on 2 operands?
2	a) unary b) binary c) ternary d) special
3.	The hexadecimal integer begins with $d = \frac{1}{2} 1$
Λ	a) Oh b) $0x$ c) $0o$ d) 0 Which translator is used to convert a C program into machine language?
ч.	a) assembler b) compiler c) analyzer d) interpreter
5.	Write the developer of C language.
	a) Dennis Ritchie b) Lee c) Balagurusamy d) Kanitkar
6.	Number of bytes occupied by a character variable is
7	a) 2 b) 1 c) 4 d) 8
1.	Number of bytes occupied by an integer variable a) 2 b) 1 c) 4 d) 8
8.	Number of bytes occupied by a float variable is
0.	a) 2 b) 1 c) 4 d) 8
9.	What is the valid range of numbers of int type?
	a) 0 to 256 b) -32768 to +32767 c) -65536 to +65536 d) No specific range
10.	Write the output for the statement printf("%d", 'a');
11	a) 97 b)96 c) 65 d) 66
11.	Every string in C is terminated by a)\1 b)\0 c)\2 d)\00
12	. Which of the following symbol is used to denote a pre-processor statement?
	a) \$ b) % c) # d) &
13.	Which of the following statement is wrong?
	a)mes=123.34; b)con='7'* 2; c) $3+4 = c$; d)a=2*V;
14.	Which of the following is a Scalar Data type
15	a) Float b) Union c) Array d) Pointer The bitwise AND operator is
15.	a) & b) c) & d)
16.	Every executable statements in C are terminated by
	a): b). c); d)'
17	. Which escape character can be used to begin a new line in C?
10	a) $(a \ b) (b \ c) (m \ d) (n \ b)$
10	Header files in C containa) Compiler commandsb) Library functions
	c) Header information d) Operators for files
19	. An Ampersand before the name of a variable denotes
	a) Actual Value b) Variable Name c) Address d) Data Type
20.	User defined functions makes a C program
0.1	a) structured b) object oriented c) unstructured d) file oriented
21.	The statements are executed at least once in the looping statement a) while b) do-while c) for d) nested for
22.	The statement which is used to take the control to the beginning of the loop is
	a) break b) continue c) exit d) while.
23	. Which of the following is an example of update assignment statement?
	a) $a = 5$ b) $a + = 5$ c) $a = b = c$ d) $a = b$

24. Write a statement equivalent to the following x=sqr(a); return(x); b) print("'sqr(a)"); a) return(sqr(a)); c) return(a^*a^*a); d) return (a); 25. Which among the following is an unconditional control structure a)do-while b) if-else c) goto d) for 26. Continue Statement is Used to a) to go to the next iteration in a loop b) come out of a loop c) exit and return to the main function d) restarts iterations from beginning of loop 27. Which is the exit controlled looping structures? a) for b) do..while c) while d) all the above 28. Immediately terminate the execution of a loop using a) continue b) break c) default d) auto 29. How many times the statement for(i=1;i<=15;i+=2) will be executes? a) 5 b) 8 c) 9 d) 0 30. for loop contains another for looping statement is called b) multiple a) nested c) static d) array 01093 31. The keyword else can be used with a) switch b) if c) for d) do 32. The default statement is executed with b) if a) switch c) for d) do 33. The default statement is executed when b) one of the case is true a) all the case are false d) one of the case is false c) all the case are true 34. What happens if you create a loop that never ends? a) program ended b) program executes c) system halt d) system off 35. The statements which are executed repeatedly is called a) condition c) loop d) sequence b) if 36. Write the output for the statement for(i=1;i<=10;i++); printf("%d",i); b) 10 c) 11 d) i a) 1 37. The statements in if block is executed when the condition is b) false (CC) true or false d) true and false a) true 38. An if contains another is called a) nestedif b) if..else c) else if ladder d) simple if 39. The multiple branching statement is a) for b) do c) while d) switch 40. The conditional operator is b) ?: a):? c);? d) ?? 41. The array elements are stored in the memory locations a) garbage b) continuous c) random d) even 42. How many bytes are occupied by the variable i, inti[10]; b)40 a) 10 c)20 d) 0 43. Which is the collection of similar data type? b) set c) structure a) arrav d) union 44. The function returns the length of the string is a) strcpy() b) strlen() c) strlength() d) strl() 45. char a[]={'h', 'a', 'i'}; size of the array a is a) 3 b) 4 c) 2 d) 0 46. Number of arguments used in the function strncat as b) 1 a) 0 c) 2 d) 3 47. The strcmp() function returns the value as a) int b) char c) float d) NULL

49. What does main() returns?	
	or c) operating system d) compiler
50. A function called another functi	
	Sunction c) recursion d) nested function
51. What does C function return?	unetion cyrecuision dynesica fanction
a) float b) double	c) integer d) char
52. When the function returns nothin	
a) int b)void c)null d) float	g what while be recard type :
	the function calling statement calledas?
	lobal d) local
54. The actual parameters must ma	
a) type, order b) number c	
55. Any mismatch in data types ma	ay also result in
a) garbage value b) positive val	lue c) negative value d) 0
56. A function called itself is calle	
a) recursion b) definition c) iteration d) repetition
57. Local variables are also called	
a) internal b) external c)	
58. What is the scope of the forma	
a) only in the function b) enti	re program c) outside the programd) not at any
where	
	and alive throughout the program is called as
a) internal b) external c) 60. Parameters are also knows as) static d) register
a) prototype b) arguments c	e) function d) structure
61. What is (void*)0?) interiori d) structure
	nter b) Representation of void pointer
c) Error	d) None of above
	cture, then which of the following operator is used to
-	ture through the pointer variable?
a) . <u>b)</u> &	<u>c)</u> * <u>d</u>) ->
63. A pointer is 63	
	iables b) A variable that stores address of an
	stores address of other variable d)All of the above
64. What is a Pointer variable is pro	
a) * b) & c)	
65. Which is called indirection oper	ator?
a)* b)&	c)-> d);
66. What is the process of calling a f	function using pointers is called as?
a) call by valueb) call by referen	
67. The elements of an array is acco	•
a) Incrementing pointer variable	· · · ·
c) using pointer variable	d) all the above
68. A pointer variable refers to	
a) an integer constant	b) A float value
c) Any valid address in memory	
69. Identify the correct declaration	

70 The energy left in time time energy is
70. The operand of indirection operator is
a) pointer variable b) pointer expression c) both a) and b) d) ordinary
variable
71. The operators exclusively used in pointers are
a) * and & b) * and $(c) \otimes (c) \otimes (c$
72. The address is
a) signed b) unsigned c) long d) short
73. The function used to remove the allotted space is
a) new b) delete c) remove d) free
74. printf("%d",&a); what is the output?
a) value of a b) address of a c) garbage value d) 1
75. short $p[4]$; the amount of memory to be allotted for p is bytes
a)0 b)4 c)6 d) 16
76. The memory size of the variable is also called
a) scale factor b) integer factor b) length d) none
77. & is called as ?
a) address operator b) value at operator
c) indirection operator d) increment operator
78. The operator that is used to get the value at address stored in a pointer variable is
a) & b) % c) * d)
79. What do the following declaration signify? int (*pf)();
a) pf is a pointer to function. b) pf is a function pointer.
c) pf is a pointer to a function which return int d) pf is a function of pointer variable.
80. What do the following declaration signify? char **argy;
a) argv is a pointer to pointer. b) argv is a pointer to a char pointer.
c) argy is a function pointer. d) argy is a member of function pointer.
81. The union stores
a) all objects at a time b) one object at a time
c) multiple object at a time d) none
82. What is a collection of related data possibly of different type is called as?
a) array b) structure c) function d) table
83. A bit field is defined like a
a) structure b) array c) variable d) file
84. The structure declaration is ended with
a): b). c); d))/
85. struct x{}; What is x called as
a) structure variable b) tag name c) member d) none
86. Is it possible the structure contain pointer to itself?
a) possible b) not possible c) c can't support
87. Which one is the C compiler?
-
a) Ansi b) Turbo c) Borland d) All the above
88. Which function is used to find the memory size for the variables.
a) size() b) sizeof() c) length() d) none
89. Which function is used to compare the C structures automatically?
a) $a_{a} = a_{a} = a$
a) compare() b) strcmp() c) Not possible d) comp()
90. Whichoperator is used to access the member of the structure?
90. Whichoperator is used to access the member of the structure?
 90. Whichoperator is used to access the member of the structure? a) ; b) . b) . c) : d) - 91. Structures within another structures is called
90. Whichoperator is used to access the member of the structure?a) ; b) .c) :d) -

92. When the structure is passed to aa) Entire structurec) address of the structure	b) members in the structure	
93. Which is used to access the bit va	,	
a) struct b) union	c) bitfield	d) bit
94. Whichfunction is used to open a f		<i>a)</i> 010
a) fcreate() b) create() c) ope		
95. Which function is used to read a chara	· · · ·	
a) getc() b) gets() c) ge	tch() d) getche()	
96. What is the type of file datatype ?		
a) primitive b) user defiled		
97. What is the mode used for file oper		ç?
a) \mathbf{r} b) \mathbf{w} c) \mathbf{r} +	d) a .	
98. If an error occurs while opening the	-	inter return?
a) 1 b) -1 99. What is the mode used for append	c) 0 d) 2 new contents to the end of the	file?
a) w+ b) r+ c) a	d) w	Inc.
100 In and the formation is the Community	11'	
a) main() b) printf() c) scar	nf() d) any user defined func	ction
	nf() d) any user defined func	
	X 0-	
~		
O)		
G		
5		
KASCIII		
•		

SECTION B

- 1. Write about the importance of c language.
- 2. Discuss the basic structure of a c programming with example.
- 3. Write a program to calculate the simple interest.
- 4. Explain the basic input and output functions in c.
- 5. List the relational and logical operators used in C.
- 6. Write about primitive data types.
- 7. How to declare and initialize the values to variables.
- 8. Write the conversion specification characters in C. Give example.
- 9. Explain Escape sequence characters with example.
- 10. Explain increment and decrement operators in c with example.
- 11. Write the difference between while and do-while loop.
- 12. Illustrate for loop with example.
- 13. Write the syntax of if statement and its types with example.
- 14. Which is the multiple branching statement? Explain it with example.
- 15. Explain nested for loop with example.
- 16. How to use the conditional operator to check a condition? Explain with example.
- 17. Explain goto statement with example.
- 18. Write a program to calculate factorial of a number.
- 19. Write a program to calculate sum of numbers from 1 to n.
- 20. Write a program to print the greatest of 3 numbers.
- 21. What is an array?
- 22. How to declare and initialize an one dimensional array?
- 23. Write a program to print sum of n numbers in an array.
- 24. Write about strings.
- 25. Write a program to check a string is palindrome.
- 26. How to declare and initialize an one dimensional array?
- 27. How to declare and initialize two dimensional array?
- 28. What is a function? Write the advantages of a functions.
- 29. Write a program o perform arithmetic operations using functions.
- 30. Explain recursion with example.
- 31. What is a pointer?
- 32. Write the advantages of a pointer.
- 33. Write about & and * operator in pointers.
- 34. Discuss on pointer on pointers.
- 35. Write about the arithmetic expressions using pointers.
- 36. Write about sizeof() with example.
- 37. Write a program to print the address of an integer variable.
- 38. Write a program to swap two integer values using pointers.
- 39. Explain pointers and arrays.
- 40. Write a program to print the array elements using pointers.
- 41. What is a structure? Write the syntax for structure.
- 42. How to initialize a structure variable.
- 43. Write the difference between structure and union.
- 44. Write about nested structure. Give an example.
- 45. Write a program to print student mark sheet using structures.
- 46. What is a file? How to open and close a file?
- 47. How to read and write the character into the file?
- 48. Write a program to store the address of a person in a file.

49. Explain fprintf() and fscanf() with example.

50. Write the difference between printf() and fprintf()

SECTION C

1. Summarize the history and the advantages of c language.

2. How will you compile and execute a c program? Explain with example.

3. Explain about C tokens in detail.

4. Explain the data types in c.

5. Explain the operators in c.

6. Explain the hierarchy of operators in c language.

7. Elaborate type conversion with example.

8. Describe formatted input and output with examples.

9. Construct a program to perform arithmetic operations

10. Elaborate on constants and variables in C.

11. List out all branching statements? Explain with example.

12. Explain all looping statements with example.

13. Construct a program to print the sum of the series 1+1/2+1/3+1/4+...

14. Construct a program to print student mark sheet .

15. Explain break and continue statement in detail.

16. Elaborate jumps in loops with examples

17. Construct a program to find the factorial of a number

18. Summarize switch case statements with example

19. Construct a program to print cos value of x.

20. What are the benefits of looping statements in c? Explain

21. Summarize array and its types with example.

22. Construct a program to perform matrix operations

23. Elaborate string functions with example.

24. Explain the concept of single dimensional array with example

25. How will you manipulate multi dimensional arrays

26. Construct a program to sort n numbers using bubble sort

27. What is recursion? Explain with example.

28. Elaborate on Types of a function

29. What is a function? Explain about the type of functions

30. What is call by value and call by reference? Explain

31. What is a pointer? Explain about chain of pointers with example

32. Explain about pointers and arrays.

33. Explain structure and pointers with example.

34. How will you access functions usingpointers.

35. Elaborate on pointer and scale factor

36. Explain about accessing array using pointers

37. Construct a program to find the palindrome using pointers

38. Construct a program to add 2 matrices using pointers

39. Describe about scope lifetime and visibility of variables

40. How will you access a variable value using pointers? Explain with example

41. What is a structure? Explain with example

42. Elaborate Union with example.

43. Describe in detail about file I/O

44. What are Command Line Arguments Explain?

45. How to read and write the number into the file? Explain with example

- 46. Explain array of structures and arrays within structures.
- 47. Construct a program to copy the content of one file to another file using command line arguments.
- 48. Elaborate on Preprocessor Directives
- 49. What are Complier Control Directives? Explain
- 50. Explain in detail about macro substitution.

Answers	48. d	96. c
1. c	49. c	97. c
2. b	50. d	98. b
3. b	51. c.	99. c
4. b	52. b	100. a
5. a	53. a	
6. b	54. a	
7. a	55. a	
8. c	56. a	
9. b	57. a	
10. b	58. a	
11. b	59. b	
12. c	60. b	
13. c	61. a	
14. a	62. d	
15. c	63. b	
16. c	64. a	O.
17. d	65. a	
18. b	66. b	
19. c	67. a	
20. b	68. c	
21. a	69. d	chnology
22. b	70. c	
23. b	71. a	
24. a	72. c	
25. c	73. d	
26. a	74. b	
27. b	6 0 75. d	
28. b	76. a	
29. b	77. a 78. c 79. c 80. b	
30. a	78. c	
31. b	79. c	
32. a		
33. a	81. b	
34. b 35. c	82. b 83. a	
35. c 36. c	83. a 84. c	
30. c 37. a	84. C 85. b	
37. a 38. a	85. 0 86. a	
39. d	87. d	
40. b	88. a	
40. b 41. b	89. c	
42. c	90. b	
43. a	91. a	
44. b	92. d	
45. b	93. c	
46. d	94. d	
47. a	95. a	

KONGUNADU ARTS AND SCIENCE COLLEGE (AUTONOMOUS) **COIMBATORE-641029**



QUESTION BANK

SUBJECT CODE: 15UIT304 TITLE OF THE PAPER: DATA STRUCTURES AND ALGORITHMS . I'L NFORMATION NOVEMBER 2018

DEPARTMENT OF INFORMATION TECHNOLOGY

Prepared by B.KAVITHA Department of Information TECHNOLOGY Kongunadu Arts & Science College, Coimbatore-29.

Kongunadu Arts & Science College (Autonomous) Department of INFORMATION TECHNOLOGY **Question Bank** Data structures and Algorithms CONTENTS

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	3	Section C	10
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Section -A

1) Which criteria satisfy that every instruction must be sufficiently basic? a) Effectiveness b) Finiteness c) Definiteness d) Infiniteness 2) What is Datastructure? a) Set of Axioms b) Set of Domains c) Set of Functions d) all the above 3) Which language is used for algorithms in datastructure? a) C b) C++ c) COBOL d) SPARKS 4) Which is the art of creating sample data upon which to run the program? a) Verification b)Testing c) Debugging d) Program proving 5) Which is the simplest and commonly used data object? nology a) Ordered list b) Stacks c) Queues d) Linked list 6) How an Ordered list is represented? a) Array b) Stacks c) Queues d) Linked List 7) A matrix with many zero entries are called a) Square matrix b) Sparse matrix c) Diagonal matrix d) Scalar matrix 8) What is the synonym for Row-major order? a) Column order b) Row order c) Major order d) Lexicographic order 9) In which data object all insertions and deletions take place at one end? a) Array b) Stacks c) Queues d) Linked List 10) In which data object all insertion take place at one end and all deletions take place at another end? a) Array b) Stacks c) Queues d) Linked List 11) Which data object is also called FIFO? a) Array b) Stacks c) Queues d) Linked List 12) Which data object is also called as LIFO? a) Array b) Stacks c) Queues d) Linked List 13) Which condition is used in circular queue for representing a full and empty queue? a) front = front+1 b) rear = rear+1 c) front = front-1 d) front = rear 14) What does an expression is made up of? b) Operators c) delimeters d) all the above a) Operands 15) Which operator is used in circular queue? a) Addition b) Subtraction c) Division d) Modulo

16) What is the conventional way of writing an expression?a) Expressionb) Infixc) Postfixd) Prefix
17) In which expression an operator appears after its operands?a) Expressionb) Infixc) Postfixd) Prefix
18) Which is not an ordered list?a) Arrayb) Stacksc) Queuesd) Linked List
19) How many tuples are used for representing a sparse form?a) 3b) 4c) 5d) 2
20) Which refers to the kind of data that a variable may hold?a) Data structure b) Data type c) Data object d) Data representation
21) Using which the problem of data movement in sequential Representation is solved?
a) Arrays b) Stacks c) Queues d) Linked List
22) What does a node made up of?a) Nodes b) Links c) Lists d) Nodes and Links
23) Where all free nodes are placed?a) Pool b) Storage Pool c) Sparse d) Box
24) Which method is used to return node X to storage pool?a) Getnode(X) b) Ret(X) c)Return(X) d) Delete(X)
 25) An efficient way to represent several stack is a) Linked list b) Circular list c) Linked stack d) Doubly linked list
26) How the variable AV is declared?
a) Locally b) Globally c) Privately d) Protectedly
27) Where in the storage pool the returned node will be inserted?a) Frontb) Middlec) Endd) Left
28) Which procedure is used to create a new node and append to the end of the list?a) Attach() b) Getnode() c) Ret() d) Return()
29) In which type the last node points to the first node?a) Linked list b) Singly list c) Doubly list d) Circular list
30) How many fields are there in doubly linked list?a) 3b) 2c) 4d) 5
31) What is the name of the special node in doubly linked list?a) Left node b) Right node c) Data node d) Head node

32) What is the process of searching down the list of free blocks and finding the block of size>n is called?	first
a) Best fit b) Next fit c) First fit d) Last fit	
33) What is the process of finding a free block whose size is as close to?a) Best fitb) Next fitc) First fitd) Last fit	
34) What is the value of TAG for a free node?a) 0b) 1c) 2d) -1	
35) What is the value of TAG for an Allocated node?a) 0b) 1c) 2d) -1	
 36) What does a UPLINK field of a free block points to? a) Start of the block b) End of the block c) Start of the next block d) End of the next block 	
 37) Having the tag field in first and last nopdes of each block is called a) Tag method b) Global method c) Local method d) Boundary tag method 	
38) Which phase is used for marking all nodes in use?	
a) Marking phaseb) Unmarking phasec) Compact phased) Allocate phase	
c) compact phase d) Anocate phase	
39) How a node accessible through link field is called?	
a) Directly accessible b) Indirectly accessible	
c) Linearly accessible d) Sequentially accessible	
40) What is the process of collecting all unused nodes and returning them	
to available space?	
a) Collection b) Garbage collection c) Compaction d) Relocation	
41) What does a number of subtrees of a node called?	
a) Degree b) Leaf c) Terminal d) Children	
42) What does a node having degree zero called?a) Leaf b) Nonterminal c) Degree d) Children	
43) When a root is removed from a tree it is called?a)Tree b) Degree c) Ancestor d) Forest	
44) A finite set of nodes which is either empty or consists of a root and 2 disjoint binary trees is calleda) Binary tree b) Tree c) Forest d) Root	
 45) In a complete binary tree with n nodes, Lchild will be at which position? a) i/2 b)2i c) 2i+1 d) 2i-1 	

- 46) In a complete binary tree with n nodes, Rchild will be at which position? c) 2i+1 d) 2i-1 a) i/2 b)2i
- 47) In a complete binary tree with n nodes, Parent will be at which position? c) 2i+1 d) 2i-1 a)i/2 b)2i

48) The traversal method that move down the tree towards the left until you can go no farther is called a) Inorder b) Preorder c) Postorder d) Priorder

- 49) Using which pointer the null links are replaced? a) Threads b) Left c) Right d) Normal
- 50) For which pointer the LBIT and RBIT will have value 1? a)Threads b) Left c) Right d) Normal ,ology
- 51) Which symbol is used to represent a directed graph? a) <> b) () c) { } d) []
- 52) How many edges are there in a undirected graph? a) n(n-1)/2b) n(n+1)/2c) (n-1)/2d) (n+1)/2
- 53) What is the maximum number of edges in a directed graph? a) n(n-1)/2b) n(n+1)/2c) n(n-1)d) n (n+1)
- 54) Which path will have same first and last vertices? b) Simple path c) Connected d) Length a) Cycle
- 55) The number of edges for which V is the head is called a) In-degree b) Out-degree c) Degree d) Digraph
- 56) The number of edges for which V is the tail is called a) In-degree b) Out-degree c) Degree d) Digraph
- 57) Which is the type of tree that contains solely of edges in G and including all vertices in G is called?

a) Tree b) Complete tree c) Spanning tree d) Binary tree

- 58) A matrix with the property $A^+(i,j)=1$ if there is a path of length>0 from i to j is called a) Closure b) Transitive closure c) Reflexive closure d) None
- 59) A matrix with the property $A^+(i,j)=1$ if there is a path of length>=0 from i to j is called a) Closure b) Transitive closure c) Reflexive closure d) None
- 60) What does a number on the edge represents? b) Heights c) Width d) None a) Weights
- 61) Which field is used to distinguish among the records? a)Keys b) Values c) Index d) Records

62) In which search method the key values are examined in order?a) Sequential b) Non-sequential c) Random d) None
63) In which search method, the search begins by examining the record in the middle of the file?a)Sequential search b) Binary search c) Random search d) Fibonacci search
64) What operator does a fibonacci search involves?a) Addition b) Subtraction c) Both (a) and (b) d) Division
65) Which is defined to be a complete binary tree with the property that the value of each node is atleast as large as the value of its children?a) Binary tree b) Tree c) Heap d) Spanning tree
66) Which sort method is used for sorting file of records with respect to keys?a) Radix sort b) Quick sort c) Heap sort d) Merge sort
67) What is the total computing time for merge sort? a) $O(n \log n)$ b) $O(n^2 \log n)$ c) $O(n^2 \log n^2)$ d) $O(n \log n^2)$
68) In how many ways records in a file can be stored? a) 1 b) 2 c) 3 d) 4
69) Where does a key controlling the process is kept in quick sort?a) Leftb) Rightc) Middled) End
 70) What is the time taken by each pass in LRSORT? a) O(n+r) b) O(d(n+r)) c) O(dn+r) d) O(dr+n)
71) The time taken to position the read/write head to the correct cylindera) Seek timeb) Latency timec) Timed) Transmission time
72) The time taken until the right sector of the track is under the read/write head is calleda) Seek timeb) Latency timec) Timed) Transmission time
73) The time taken to transmit the block of data to/from the disk is calleda) Seek timeb) Latency timec) Timed) Transmission time
74) The segment of the input file sorted using internal sortting is calleda) Blocksb) Segmentsc) Groupsd) Runs
75) Which is the popular sorting method used on external storage devices?a) Merge sort b) Quick sort c) Insertion sort d) Radix sort
76) What is the value of K for reducing the number of passes over the data?a) K>=2b) K=2c) K<=2d) K=1
 77) Number of buffers required for K-way merge are a) 2k+2 b)2k c) 2k-1 d)2k-2

78) How many tapes should be used to avoid the redistribution?a) 2k+2b)2kc) 2k-1d)2k-2
79) How many output buffers are used in buffer handling for parallel operations?a) 2b) 3c) 4d) 1
80) In which tree the node represents the smallest of its 2 children?a) Binary tree b) Spanning tree c) Selection tree d) Complete tree
81) In which tree table the identifiers are known in advance?a) Staticb) Dynamicc) Symbold) Binary
82) What is associated with each name in a symbol table?a) Attributes b) Fields c) Records d) Keys
83) Which is not a part of the original tree?a) Internal nodeb) External node c) Left noded) Right node
84) External node is also called asa) Internal nodeb) Parent node c) Failure node d) Success node
85) Which value is not a balance factor of an AVL tree? a) 0 b) 1 c) -1 d) 2
86) Which term is used to represent that if Y is inserted in the right subtree of the left subtree of A?
a) LL b) LR c) RR d) RL
87) What occurs when a new identifier I is mapped into a full bucket?a) Hashing b) Collision c) Overflow d) Merging
88) What occurs when 2 nonidentical identifiers are hashed into the same bucket?a) Hashing b) Collision c) Overflow d) Merging
89) In which of these a series of hash functions are used?a) Quadratic probing b) Chain probing c) Rehashing d) Linear probing
90) Which hash function adds different parts of to get F(x)?a) Digit analysisb) Mid square c) Division d) Shift folding
91) What is meant by a combination of key values specified for retrieval?a) Fileb) Recordsc) Keysd) Query
92) Which type of query specifies a range of values for a single key?a) Simpleb) Rangec) Functionald) Boolean
93) In which mode of retieval, the response time is not very significant?a) Real time b) Batched c) Physical d) Logical

94) Which type of index contains one entry for every record in the file?a) Denseb) Non densec) Filed) Directory						
95) Which indexing technique is also referred to as ISAM?a) Cylider-surfaceb) Hashedc) Treed) Trie						
 96) What will be the degree of Trie indexing? a) m>=2 b)m<=2 c) m<=3 d) m>=3 						
97) Which file organization is used to records at random locations on disk?a) Sequential b) Random c) Linked d) cellular						
98) In which organization logical sequence is different from physical sequence?a) Sequentialb) Random c) Linked d) cellular						
99) Which link in coral rings is used to represent back pointers?a) LLINKb) RLINKc) ALINKd) BLINK						
100) In which organization the link information is kept in the index itself?						
a) Linked b) Cellular c) Inverted files d) Coral rings						
SECTION- B						
1) Define Algorithm and its characteristics.						
2) What is Data structue?						
3) Define an Ordered list and its operations.4) What is Sparse Matrix?						
5) How to represent an Array?						
6) Give brief note about Stacks.						
 7) Discuss about Queues. 8) Write short note on Multiple Stacks and Queues. 						
8) Write short note on Multiple Stacks and Queues.9) Discuss about Circular Queues.						
10) What is the procedure to Transpose a Sparse matrix?						
11) Discuss about Singly Linked List.						
12) How to insert a node into and delete a node from the linked list?						
13) Write a procedure for creating the linked list.14) Discuss about Linked Stacks						
14) Discuss about Linked Stacks.						

15) Discuss about Linked Queues.

16) Write the Procedure of GETNODE.

17) Write the Procedure of RET.

18) Write short note on Doubly Linked List.

19) Give a brief note about First Fit Algorithm.

20) Discuss about the Marking phase in Garbage collection.

21) List out the Terminologies of Tree.

22) Write the Structure of Tree.

23) How to Count the Binary trees?

24) Discuss about Inorder Traversal.

25) How trees are represented using List?

- 26) Define Graph and its Terminologies.
- 27) Discuss about Adjacency Multilist.
- 28) Write short note Connected Components.
- 29) Write short note on Shortest Paths.
- 30) Define Transitive Closure.
- 31) Discuss about Sequential search.
- 32) How does 2-way Merge sort works?
- 33) Give a brief note about Insertion sort.
- 34) Discuss about Binary search.
- 35) Discuss about Fibonacci search.
- 36) Explain about K-way merge.
- 37) Define Polyphase Merge.
- 38) Differentiate between Internal and External Sorting.
- 39) Define Run generation.
- 40) Write short note on Run generation.
- 41) Discuss about the Symbol Table.
- 42) How to search for an identifier in Static tree table.
- 43) Write the Search algorithm for searching an identifier in Dynamic Tree Table.
- 44) Write Short note on Hash Tables.
- 45) Define Query and its Types.
- 46) Discuss about Mode of Retrieval and Mode of Update
- 47) Give a brief note about Cylinder-Surface Indexing.
- 48) Discuss about Random Organization.
- 49) Write short note on Linked Organization.
- 50) Discuss about Trie-Indexing.

SECTION-C

- 1) How to Create a Program?
- 2) How to Analyze a Program?
- 3) What is the procedure for inserting and deleting items from the Stack?
- 4) Write the procedure for inserting and deleting items into the Queue.
- 5) How to Evaluate the Expression? Explain in detail.
- 6) Write the Procedure for converting an Infix into Postfix Expression.
- 7) Write the Procedure to Evaluate the Postfix Expression.
- 8) Discuss about the Structure of Polynomial Addition in detail.
- 9) Explain in detail about the SPARKS language.
- 10) Write the Procedure for Inserting and Deleting items into a Circular
- 11) Discuss in detail about Linked List.
- 12) Explain the concept of Storage Pool in detail.
- 13) How Polynomial addition is performed using Linked List?
- 14) Discuss in detail about the additional operations performed on Linked List.
- 15) How to represent a Sparse Matrix using Circular linked list?
- 16) Discuss in detail about Dynamic Storage Management.
- 17) Explain the procedure for Freeing a node in detail.
- 18) Explain the procedure for Allocating a node in detail.
- 19) Illustrate the concept of Garbage Collection in detail.
- 20) Explain about Storage Compaction in detail.
- 21) Discuss about Binary Tree Representation in detail.

- 22) How the nodes in Binary tree are visited? Explain in detail.
- 23) Explain in detail about Threaded Binary tree.
- 24) Discuss about Inorder successor and Threaded Inorder procedure.

25) Discuss about Graph Representation in detail.

26) What is Spanning tree? Explain in detail.

27) How to calculate the Minimum cost Spanning Tree?

28) Discuss about Graph Traversals in detail.

29) How to find shortest path from Single Source to All Destinations.

30) Discuss about All pairs Shortest path method in detail.

31) Explain in detail about different searching methods.

32) Discuss about Quick sort along with the algorithm and example.

33) With the example explain in detail about Heap Sort.

34) Illustrate the Radix sort algorithm with example.

35) Discuss about Merge sort in detail along with example.

36) Explain in detail about Sorting with disks.

37) How to handle buffers using Parallel operations?

38) Discuss about Balanced Merge Sort in detail.

chnology 39) Explain in detail about Sorting with tapes in detail.

40) Write the M1, M2 and M3 algorithm.

41) Explain in detail about Static tree Table.

42) Explain briefly about Dynamic Tree Table.

43) Explain in detail about Height-Balanced Tree.

44) List out the Hash functions in detail.

45) How to handle Overflow in Hash tables? Explain them in detail.

46) Discuss in detail about Indexing Techniques.

47) Discuss about File Organization in detail.

48) Illustrate the concept of Hash Indexing in detail.

49) Explain in detail about Random organization.

. ree 50) Briefly explain about Tree Indexing.

Answer key for section A:

	T	1
1)	Α	
2)	D	
3)	D	
4)	B	
5)	Α	
6)	Α	
7)	В	
8)	D	
9)	В	
10)	С	
11)	С	
12)	В	
13)	D	
14)	D	
15)	D	
16)	В	
17)	С	
18)	D	
<u> </u>	A	
20)	B	
21)	D	
22)	D	
23)	B	
23)	B	
25)	C	
23)	B	
20)	A	
27) 28)	A	
<u>28)</u> 29)	A D	
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81) A
82) A
83) B
84) C
85) D
86) B
87) C
88) B
89) C
90) D
91) C
92) B
93) B
94) A
95) A
96) A
97) B
98) C
99) D
100) C

WASCHMORTAGE MADE

KONGUNADU ARTS AND SCIENCE COLLEGE (AUTONOMOUS) **COIMBATORE - 641 029**



QUESTION BANK

SUBJECT CODE: 17UIT6E2 . 47 . CER: Dr . AFORMATIC JANUARY 2019 TITLE OF THE PAPER: DATA MINING **DEPARTMENT OF INFORMATION TECHNOLOGY**

Prepared by **B.KAVITHA Department of Information TECHNOLOGY** Kongunadu Arts & Science College, Coimbatore - 29.

Kongunadu Arts & Science College (Autonomous) **Department of INFORMATION TECHNOLOGY Question Bank** nology DATA MINING

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SECTION - A

1. Which is referred to as finding hidden information in a database?				
a. Data mining b. Data set c. Data warehouse d. Database				
2. Which is not a subset of the Database?				
a. Query b. Data c. Output d. Information				
3. How does a traditional database queries access a database?				
a. SQL b. Query c. Program d. Rules				
4. Which model makes a prediction about values of data using known results?				
a. Predictive b. Descriptive c. Preference d. Search				
5. Which model identifies patterns or relationships in data?				
a. Predictive b. Descriptive c. Preference d. Search				
6. Which is used to map a data items to a real valued prediction variable?				
a. Classification b. Regression c. Prediction d. Analysis				
7. Which is not a predictive task?				
a. Classification b. Regression c. Prediction d. Clustering				
8. Which is not a descriptive task?				
a. Clustering b. Summarization c. Discovery d. Regression				
9. In which, the value of an attribute is examined as it varies over time?				
a. Regression b. Classification c. Time Series analysis d. Prediction				
10. Which is also referred to as link analysis?				
a. Association Rules b. Summarization c. Clustering d. Sequence Discovery				
11. In which KDD step erroneous data are corrected or removed?				
a. Selection b. Preprocessing c. Transformation d. Interpretation				
12. Which visualization technique includes the box plot and scatter diagrams?				
a. Graphical b. Geometric c. Icon-based d. pixel-based				
13. Which is used to proceed from very specific knowledge to more general information?				
a. Compression b. Induction c. Querying d. Approximation				
14. Which approach of data mining is used to describe some characteristics of a set of				
data by a general model?				
a. Compression b. Induction c. Querying d. Approximation				
15. Which term is used to represent the data that do not fit nicely into the derived model?				
a. Overfitting b. Outliers c. Irrelevant d. Noisy data				
16. Which term is used to represent the attributes in the database that are not interest to				
the data mining task being developed?				
a. Overfitting b. Outliers c. Irrelevant d. Noisy data				
17. Which problem refers that there are many attributes involved and its difficult to				
determine which one should be used?				
a. Dimensionality b. Visualization c. Outliers d. Multimedia				
18. In which visualization techniques, the display area are hierarchically divided into				
regions based on data values?				
a. Hybrid b. Pixel-based c. Icon-based d. Hierarchical				

10	In which KDD stop	data from different sou	iracs are converted int	a common format
19.	for processing?		inces are converted into	
	a. Selection	b. Preprocessing	c Data mining	d. Transformation
20		special type of clustering	-	d. Transformation
20.	a. Affinity analysis		c. Association	d. Segmentation
21.		bes the relationship bet		U
	algebraic equations?	r	······································	
	a. Parametric b. No	on Parametric c. Par	enthesized d. No	n Parenthesized
22.	Which is a data-drive			
	a. Parametric b. No	on Parametric c. Par	enthesized d. No	n Parenthesized
23.	What is the difference	e between the expected	d value of the estimato	or and the actual
	value?			
	a. Bias	b. Unbias	c. Model	d. preference
24.	Which is the bias val	ue of an unbiased estir	nator?	う
	b. 0	b. 1	c. 2	d. 3
25.	Which is the popular	estimating technique?		
	a. RMSE	b. RMS	c. MSE	d. Jackknife
26.	-	ves the estimation prob		
		on b. Expectation Max		
27.	-	ustrate several differen		
20	a. Box plot	b. Quartiles	c. Scatter diagram	d. Histogram
28.		ypothesis to be tested i		
20	a. Hypothesis	b. Rule c. Nu	• •	ernative Hypothesis
29.	a. Hypothesis	n of the null hypothesis b. Rule c. Nu	ill Hypothesis d. Alt	ernative Hypothesis
30	9 I	dict future values based	• 1	• 1
50.	to a curve?	and fature values suser	a on pust values by ne	ing a set of points
	a. Regression	b. Correlation c.	Linear Regression	d. Predictors
31.	U	lates the overlap to the	e	
	a. Dice	b. Jaccard	c. Cosine	d. Overlap
32.	Which coefficient de	termines the degree to	which the two sets ov	erlap?
	a. Dice	b. Jaccard	c. Cosine	d. Overlap
33.	Which is used to mea	asure the unlike items?		
	a. Similarity	b. Mapping	c. Difference	d. Distance
34.		vide and conquer tech		
a. Decision Tree b. Neural Network c. Genetic Algorithm d. Artificial NN				
35.	-	its a successful as the o	• • • •	
26	a. Root	b. Non Leaf	c. Leaf	d. Parent
30.		ved as a directed graph		
27		Neural Network c. Ge pe of connectivity follo	•	
57.	a. Feed Forward			orm Back

38	How the arcs in the neura	l natworks are labe	alad?	
50.	a. w_i b. w_j	c. Wk	d. w _{ij}	
20	Which is also called as ac		u. w _{1j}	
59.			o Fiving Dulo	d. Fixed Rule
40	a. Firing Rule b. I	e	c. Fixing Rule	
40.	Which technique generate strings?	es new individuals	by switching subseque	ences of the
	a. Chromosomes b.	Crossover	c. Mutation	d. Population
41.	Which classification prob is associated with one cl	-	put space into regions	where each region
	a. Specifying Boundarie	s	b. probability	Distribution
	c. Priori Distribution		d. Posterior D	istribution
42.	Which is used to examine	e false alarm rates?		
	a. OC b.F	RPC	c. ORC	d. RCO
43.	In which regression appro	pach the formulas a	are generated to predic	t the output class
	value?			2
	a. Correlation b. I	Division	c. Prediction	d. Classification
44.	Which regression uses a l	logistic curve?		
	a. Linear Regression b.	Non Linear Regres	sion c. Regression d. I	Logistic Regression
45.	Which scheme is propose	d based on bayes r	ule of conditional prob	ability?
	a. Classification b.Naive	e Bayes Classificat	ion c. Clustering d. Ba	yes Classification
46.	Which technique assumes	s that the entire trai	ining set includes not o	only the data but
	also the desired classific		-	
	a. Bayes Classification		b. Naive Bayes Class	ification
	c. K Nearest Neighbours	2	d. Regression	
47.	Which is associated with	the ordering of the	attributes?	
		ng Splits c. Ord		pping Splits
48.	Which phase removes red	lundant comparison	ns?	
	a. Pruning b. s	Splitting	c. Stopping	d. Training
49.	Which technique generate			-
	a. C4.5 b. 0	CART	c. SPRINT	d. ID3
50.	Which technique attempts	s to minimize the e	expected number of con	mparisons?
	a. C4.5 b. 0	CART	c. SPRINT	d. ID3
51.	Which algorithm addresse	es the scalability is	sues?	
	a. C4.5 b. 0	CART	c. SPRINT	d. ID3
52.	Which factor indicates the	e relative weight b	etween 2 nodes?	
	a. Interconnections b.	•	c. Sinks	d. Attributes
53.	In which the weights of the from the training set?	•	based on the performa	nce of the tuple
	a. Machine Learning	b. NN	Supervised Learning	
	c. Supervised Learning		upervised Learning	
54.	Which network will have			
		Propagation	c. Perception	d. Supervised NN
55.	Which will have a single		-	-
		Propagation	c. Perception	d. Supervised NN
		r0	*P*****	

56.	Which approach blends multiple techniques into a new approach?
	a. Synthesis b. Independent c. Multiple d. CMC
57.	What does the process of applying multiple independent approaches to a classification problem is called?
	a. Synthesis b. Independent c. Multiple d. CMC
58.	Which learning technique adjusts the weights in the NN by propagating weight changes backward from the sink to the source nodes?
59.	 a. Propagation b. Forward Propagation c. Back propagation d. Feed Forward Which summarizes the count of entries per class or attribute value grouping? a. AVC Table b. Attributes c. Values d. Class
60.	Which type of learning is used when an output is not known in advance? a. Supervised b. Unsupervised c. Machine Learning d. Neural Networks
	Which term is similar to Clustering?a. Database Segmentationb. Parallel Clustering
	c. Segmentation d. Partitional Clustering Which algorithm use labeling of items to assist in the classification process?
63.	a. Extrinsic b.Intrinsic c. Hierarchical d.Partitional Which algorithm does not use any Priori category labels?
64.	a. Extrinsic b. Intrinsic c. Hierarchical d.Partitional Which attribute satisfies the triangular inequality?
< -	a. Metirc b. Medoid c. Centroid d. Outliers
65.	Which tree structure is used to represent the hierarchical clustering?
	a. Binary b. Skewed c. Spanning d. Dendrogram
66.	Which technique is used to in finding maximal connected components in a graph?a. Single Linkb. Complete Linkc. Average Linkd. Alternative Link
67	Which technique looks for cliques rather than connected components?
07.	a. Single Link b. Complete Link c. Average Link d. Alternative Link
68.	Which technique merges two clusters if the average distance between any two points
	in the target clusters is below the distance threshold?
	a. Single Link b. Complete Link c. Average Link d. Alternative Link
	Which algorithm start with each individual item in its own cluster and iteratively merge clusters until all item belongs to one cluster?
70	a. Agglomerative b. Divisive c. Partitional d. Hierarchical
	In which clustering all items are initially placed in one cluster and clusters are repeatedly split into two until all items are in their own cluster?
	a. Agglomerative b. Divisive c. Partitional d. Hierarchical
71.	Which clustering is also called as non hierarchical clustering?
	a. Partitional b. Divisive c. Squared Error d. Minimum Spanning Tree
72.	In Which clustering algorithm, the item are moved among sets of cluster until the desired set is reached?
70	a. Partitional b. Divisive c. K- Means d. Squared Error
/3.	Which algorithm is similar to single link technique?
71	a. PAM b. Nearest Neighbour c. Bond Energy d. K-Mean
/4.	Which algorithm is also called K- Medoids algorithm?a. PAMb. Nearest Neighbourc. Bond Energyd. K-Mean
	a. 17111 0. Itearest reighbour c. Dond Energy u. R-Ivican

75 Which parameter represents the number of	neighbors of a node to	which any specific			
75. Which parameter represents the number of neighbors of a node to which any specific node can be compared?					
a. Max Neighbor b. NumLocal	c. Affinity d. Fr	agment			
76. Which parameter represents the number of	-				
0	•	6			
77. Which algorithm is applied on database to physically place data on disk?	determine now to grot	ip data and now			
a. Bond Energy b.PAM c. K-I	Means d. So	quared Error			
78. In which learning process, the weight betwee					
proportional to both output value?					
• •	c.Kohonen d. Co	-			
79. Using which approach, the clusters are crea a. DBSCAN b. BIRCH	c. CURE	d. CLARANS			
80. Which algorithm has both a hierarchical an					
a. DBSCAN b. BIRCH	c. CURE	d. CLARANS			
81. What is meant by the percentage of transac	tions in which item oc	curs?			
a. Support b. Association	c. Confidence	d. Strength			
82. For which item set, the number of occurren					
a. Large b. Small	c. Medium	d. Rules			
83. What is meant by the ratio of the number of	f transactions that con	tains XUY to the			
number of transactions that contain X?					
	c. Confidence	d. Strength			
84. Which algorithm is the most well known asa. Apriorib. Priori					
a. Apriori b. Priori 85. Which algorithm improves the performance	c. Sampling	d. Partitioning			
a. Apriori b. Priori		d. Partitioning			
86. In which algorithm, the database is divided	1 0	e			
a. Data Parallelism b. Task Parallelism	- -	d. Partitioning			
87. In which algorithm, the candidates as well a	1 0	U			
processors?	Ĩ	0			
a. Data Parallelism b. Task Parallelism	c. Sampling	d. Partitioning			
88. Which dimensions shows how to improve t	he performance of an	algorithm?			
a. Optimization b. Parallelism	c. Architecture	d. Technique			
89. Which dimensions allows finding large iter	n sets?				
a. Optimization b. Parallelism	c. Architecture	d. Technique			
90. Which is defined like a regular association	rule with the restriction	on that no items in Y			
may be above any item in X?	1	•			
a. Generalized Association	b. Multiple level As				
c. Quantitative Association d. Qualitative Association					
91. In which association rule, item sets may occur from any level in the hierarchy?					
a. Generalized Associationb. Multiple level Associationc. Quantitative Associationd. Qualitative Association					
92. Which association rule involves categorical and quantitative data?					
a. Generalized Association	b. Multiple level As				
c. Quantitative Association	d. Qualitative Assoc				
		7			

93. Which allows different support threshold to be indicated for each item?				
a. Apriori	b. Priori	c. MISApriori	d. MISPriori	
94. Which defines the set	of item sets that are c	correlated?		
a. Association Rule	b. Correlation Rule	c. Prediction Rule	d. Quantitative Rule	
95. Which is the data para	allelism algorithm?			
a. CDA	b. MIS	c. DDA	d. FUP	
96. Which is the task para	allelism algorithm?			
a. CDA	b. MIS	c. DDA	d. FUP	
97. Which incremental ap	proach is based on th	e apriori algorithm?		
a. CDA	b. MIS	c. DDA	d. FUP	
98. In which field the association rules are frequently used?				
a. Marketing	b. Financial	c. Medical	d. Agriculture	
99. Which algorithm is used to generate the candidate item sets for each pass after the				
first?		.0		
a. Apriori	b. Apriori-Gen	c. Priori	d. Priori-Gen	
100. Which functions are applied for determining additional candidates?				
a. Activation Function	on	b. Fitness Function		
c. Negative Border F	unction	d. Positive Border F	Function	

SECTION - B

- 1. Define Data mining and its characteristics.
- 2. Difference between Data mining access and Traditional access of database.
- 3. Discuss about Predictive Model.
- 4. Write short note on Descriptive Model.
- 5. List out the different types of Visualization Techniques.
- 6. Discuss about Classification.
- 7. What is Data Mining Metrics?
- 8. What are the Social Implications of Data Mining?
- 9. What do you think of data mining from a database perspective?
- 10. Give a brief note on Clustering.
- 11. Discuss about Parametric and Non Parametric models.
- 12. Write short note on Models based on Summarization.
- 13. What do you mean by Hypothesis testing? Give an example.
- 14. What are Similarity measures?
- 15. Briefly discuss about Decision Trees.
- 16. Define Neural Network.

- 17. Discuss about Mean Squared Error and Root Mean Square.
- 18. Write short note on Activation Functions.
- 19. Write the Expectation Maximization Algorithm.
- 20. Give a brief note on Distance Measures.
- 21. Define Classification. What are basic methods used to solve classification problems?
- 22. What are the issues in Classification?
- 23. Write short note on Bayesian Classification.
- 24. Give an example for Classification using Division.
- 25. Give an example for Classification using Prediction.
- 26. Write short note on K-Nearest Neighbors.
- 27. What are the Issues faced by DT Algorithms?
- 28. What are the Issues to be examined in NN Based Algorithms?
- 29. Write short note on Combining Techniques.
- 30. Write short note on Radial Basis Function Networks.
- 31. Give examples for different Clustering Attributes.
- 32. Discuss about Similarity and Distance Measures.
- 33. Write short note on Outliers.
- 34. Discuss about K-Means Clustering.
- 35. Write short note on Divisive Clustering.
- 36. Write short note on Clustering with Genetic Algorithms.
- 37. What do you mean by Bond Energy Algorithm?
- 38. Compare some of the important Clustering Algorithms.
- 39. What are the problems occurred when applying clustering to real world database?
- 40. Briefly discuss about Clustering Large Databases.
- 41. What do you mean by Association Rules?
- 42. What do you mean by Partitioning?
- 43. Give a brief note on Parallel and Distributed Algorithm.
- 44. List out the Dimensions of Algorithm based on which it is classified.
- 45. Discuss about the Incremental Rules.
- 46. Write short note on Correlation Rules.
- 47. What are the Advanced Association Rule Techniques?
- 48. List out the basic algorithms of the Association Rule with examples.
- 49. List out the areas in which the Association Rules are applied.
- 50. How do you measure the Quality of Rules?

SECTION - C

- 1. Explain in detail about Data Mining.
- 2. Explain basic Data Mining tasks in detail with an example.
- 3. Discuss about Predictive Data Mining tasks in detail.
- 4. Explain in detail about Descriptive Data Mining Tasks.
- 5. Discuss about the steps in KDD process in detail.
- 6. Give a detailed note about Data Mining versus Knowledge Discovery in Database.
- 7. Discuss in detail about the development of Data Mining.
- 8. List out the Data Mining Issues in detail
- Illustrate in detail about the Data Mining Metrics and Social Implications of Data Mining.
- 10. Discuss in detail about Regression and Prediction.
- 11. Illustrate in detail about Point Estimation with an example.
- 12. Discuss in detail about the Bayes Theorem with an example.
- 13. Elaborate about the Regression and Correlation.
- 14. Explain in detail about Decision Trees.
- 15. Explain in detail about Neural Networks.
- 16. Discuss in detail about the Genetic Algorithm.
- 17. Illustrate about Decision Tree Algorithm in detail with an algorithm.
- 18. Discuss in detail about the Genetic Algorithm and Fitness Function.
- 19. List out the Similarity and Dissimilarity Measures in detail.
- 20. What do you mean by a Statistical perspective on Data Mining?
- 21. Illustrate about the Classification in detail.
- 22. Explain in detail about Regression.
- 23. What do you mean by Distance based algorithm?
- 24. Illustrate in detail about ID3 algorithm.
- 25. Discuss about C4.5 and CART techniques of DT in detail.
- 26. Discuss in detail about the NN Supervised Learning.
- 27. How do you generate rules from DT and a Neural Network?
- 28. How to generate rules Without DT or NN?
- 29. Illustrate in detail about Neural Networks.

- 30. Explain in detail about Propagation and Perceptions.
- 31. Explain in detail with an example the Hierarchical Algorithms.
- 32. Give an example for Clustering with Categorical Attributes and explain in detail.
- 33. Illustrate in detail about Agglomerative Algorithm
- 34. Explain in detail about Partitional Algorithms
- 35. Discuss about the Minimum Spanning Tree and Squared Error Clustering Algorithm
- 36. Explain in detail about Clustering with Neural Networks.
- 37. Explain DBScan Algorithm in detail.
- 38. Discuss in detail about the CURE Algorithm.
- 39. Explain in detail about the Clustering.
- 40. What do you mean by BIRCH? Explain in detail.
- 41. Explain in detail about Large Item set.
- 42. Explain about Apriori algorithm in detail with an example,
- 43. Discuss about the Sampling Algorithm in detail with an example.
- 44. Illustrate Data Parallelism algorithm in detail.
- 45. Explain in detail about Task Parallelism.
- 46. Discuss about Generalized and Multiple level Association Rules in detail.
- Discuss in detail about the Quantitative Association Rules and Using Multiple Minimum Supports.
- 48. Illustrate about Parallel and Distributed Algorithms in detail.
- 49. What are the Comparing Approaches? Discuss in detail.
- 50. List out the Basic Algorithms in detail.

	45. a	90. c
1. d	46. b	91. b
2. d	47. b	92. b
3. b	48. d	93. c
4. c	49. a	94. d
5. b	50. b	95. d
6. b	51. a	96. d
7. b	52. a	97. b
8. d	53. a	98. a
9. d	54. a	99. a
10. c	55. d	100. a
11. b	56. a	
12. a	57. c	<u>,</u>
13. c	58. a	
14. d	59. c	
15. c	60. a	0.
16. a	61. d	0
17. b	62. a	
18. c	63. d	
19. b	64. a	
20. c	65. a	mology
21. a	66. b	
22. a 23. a	67. a	
23. a 24. c	68. b	
25. a	69. c 70. b	
26. b	71. c	
27. c		
28. a	73. b	
29. d	74. a	
30. a	75. a	
31. a	72. a 73. b 74. a 75. a 76. a 77. a	
32. b	77. a	
33. d	78. c	
34. d	79. b	
35. a	80. c	
36. c	81. a	
37. a	82. c	
38. a	83. d	
39. b	84. d	
40. c	85. b	
41. a	86. a	
42. a	87. a	
43. d	88. c	
44. a	89. b	

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COIMBATORE-641 029



QUESTION BANK

Subject code

16UIT5E1

Title of the paper

EMBEDDED SYSTEMS

DEPARTMENT OF INFORMATION TECHNOLOGY

NOVEMBER 2018

Prepared By:

R.KARTHIK

unmous)

SECTION-A

Choose the correct answer

 Microcontroller is also known as a) Microprocessor b) Microcomputer c) Minicomputers d) Embedded systems
2. Final stage s/w is called as a)Rom-imageb) ROMc) RTOSd) ISR
3. An assembler translates an assembly language code into a machine code using the step called asa) Loading b) Assembling c) Linking d) Translating
4. The process in which the linker links the codes with other required assembled code is called asa) Assembling b) Linking c) Loading d) Locating
5. The process of placing the codes in ROM or EPROM is called asa) Burning (b) Assembling (c) Loading (d) Translating
a) Burningb) Assemblingc) Loadingd) Translating6. SoC is
a) System on Chip b) System c) Standard source d) System chip
7. The process for locating the codes as ROM-image & placing them at the actually available place in the ROM is
a) Loading b) Assembling c) Locating d) Linking
8. The tool for dynamically tracking the changes in any program variable is
a) RTOS b) Stethoscope c) trace scope d) simulator
9. The tool which helps in tracing the changes in the module & tasks with time on the x- axis is
a) Trace scope b) stethoscope c) simulator d) cross assembler
11. Which takes the I/P from various channels & transfers the I/P from a selected channel to a system.a) Multiplexerb) Demultiplexerc) Decoderd) Encoder

12. Which is the OS for real time programming

a) POSIX b) RTOS c) DOS d) UNIX

13. A processor state in which the processor registers acquire initial values from which starts an initial program is

a) Reset b) Set c) Both d) None

14. A fast read & writes on-chip unit for the processor execution unit is called

a) Cache memory b) Virtual memory c) Associative memory d) None

15. UART stands for

a) Universal Asynchronous Receiver and Transmitter b) Uniform Asynchronous

Receiver and Transmitter c) Universal Asynchronous Reader and Transmitter

d) Universal Active Receiver and Transmitter

16. A diode that absorbs or emits light on application of 3 to 4 V,50 or 60 Hz voltage a pulse with current is

a) LED b) LCD c) LDE d) LCE

17. A digital circuit that has digital I/Ps from multiple channels is called as

a) Multiplexer b) Demultiplexer c) Decoder d) Encoder

18. A data structure which sent a byte stream from a data source & which delivers the stream to the data sink is

a) Stack b) Pipe c) Linked List d) Queue

19. PWM stands for

a) Pulse width Modulator b) Pipe width Modulator c) Pulse width Moderation

d) Pulse word Modulator

20. FPGA is

a) Field Programmable Gate Array b) Field Programmable Ground Array

c) Fine Programmable Gate Array d) Field Processor Gate Array

21. A standard bus that is used as a peripheral component inter connect bus is.

a) PCI-Bus b) CAN-Bus c) ISA-Bus d) USB-Bus

- 22. IPR stands for
 - a) Interrupt Pending Register b) Interrupt Processing Register c) Interrupt Pending Request
 - d) Interrupt Pension Register
- 23. An action blocked for a certain pre-defined period.
 - a) Event b) Ready c) Delay d) Running
- 24. A port for read & write operations on multiple bits at an instance.
 - a) Parallel port b) Serial port c) Serial UART-i/p port d) Serial UART o/p port
- 25. A period for waiting for the service after a service demand is raised is
 - a) Interrupt latency b) Deadlock c) Throughput d) None
- 26. The signal before storing the bits at the port buffer or before accepting the bits from the port buffer
 - a) O/P buffer signal b) I/P buffer signal c) Handshaking signals d) Serial port signal
- 27. A clock that continuously generates interrupts at regular intervals endlessly.
 - a) System clock b) Real time clock c) Device clock d) Timer
- 28. A line used for transmission of UART- serial bits is.
 - a) RxD b) TxD c) UART d) Com-port
- 29. Which includes a program counter as well as the program status word, stack pointer and processor registers.
 - a) Context b) Program Counter c) Preemption d) Dead line
- 30. A port at the computer where a mouse, modem or serial printer connects.

a) Com-port b) RS232C-port c) I/P-port d) Serial port

- 31. A communication in which a constant phase difference is maintained between clocks that guide the transmitter & the receiver is
 - a) Synchronous b) Asynchronous c) Half duplex d) Duplex

32. FSK stands for

a) Frequency shifted keying b) Frequency sequence keying c) Forbidden shifted keying

d) Frequency synchronous keying

33. QPSK stands for

a) Quadrature phase shifted keying b) Quadraple phase shifted keying c) Quadrature program shifted keying d) Quadrature phase sequencer keying

d) PCB/Y bus

34. A standard bus used as PCI-extended bus is

a) PCI/ X bus b) PCB/ X bus c) PCI/ Y bus

35. A shift registers for a serial parallel I/P & parallel O/P is

a) SIPO b) PISO c) PIPO d) SISO

36. A change of present condition is called as an

a) Event b) Latency c) Context d) Switching

37. A state in which the timer shows all bits as 0's & 1's is

a) Timer reload b) Timer load c) Timer Reset d) Timer Set

38. A unit for getting the count I/P on the occurrence of event that may be at irregular intervals is

a) Counter b) Register c) Flip Flop d) Multiplexer

39. A s/w that executes & increases or decreases a count variable on a an interrupt from a timer o/p

a) Software Timer b) Hardware Timer c) Counter d) Timeline

40. IPR stands for

a) Interrupt Pending Registerb) Interrupt Processing Registerc) Interrupt Pending Requestd) None

41. A graphical modeling tool.

a) Petrinet b) CDFG c) DFG d) HSDFG

42. A circle in pertinent represents

a) Node-place b) Node transition c) Idle state d) Graph

43. When there is only one token at the I/P, & one at the O/P, an SDFG is a

a) HSDFG b) CDFG c) DFG d) APEG

44. A precedence of vertices in a directed graph such that there is no delay at the arcs.

a) Acrylic precedence b) Precedence c) HSDFG d) SDFG

45. Probabilistic timed Petrinet are also called as

a) Timed petrinet b) Predicate c) Transition net models d) Sthcochastic petrinets

46. A system with s/w consisting of multiple threads with some controlling and scheduling mechanism.

a) Multithread system b) FSM c) Petrinet d) Token

47. Static scheduling is done at the

a) Runtime b) Compilation time c) Seek time d) Latency time

48. When each vertex computation occurs such that the precedence constraints are maintained is called

a) Static scheduling b) Dynamic scheduling c) Runtime scheduling d) Compile time scheduling

49. Vertices or circles in the graph are called as

a) Actors b) Edges c) Transitions d) Graphs

50. In SDFG the delay is represented by

a) Dot in the edges b) Edges c) Actors d) Tokens

51. A system with two or more processors for faster execution of the program or tasks is a

a) Multiprocessor system b) Multitask system c) Multiple system d) Multiprogramming system

52. Allocation of different vertices or sub-graphs on different processors is

a) Scheduling b) Allocating c) Partitioning d) Processing

53. A thread or its part that has a number of processes & instructions threaded together is called

a) Macro thread b) Micro thread c) Thread d) Token

54. Time taken for execution at a vertex or at a sub-graph or micro thread is

a) Performance b) Performance cost c) Total performance d) Total performance cost

55. Repeated synchronization by suitable mathematical analysis, reducing the no of IPCs is called

a) Synchronization b) Resynchronization c) Is synchronous d) Asynchronous

56. Which is a DFG model when the assignment to an I/P is fixed.

a) Petrinet b) ADFG c) DFG d) HSDFG

57. A model in which there are finite states.

a) Petrinet b) CDFG c) DFG d) Finite state Machine

58. VLIW is

a) Data b) Word c) Command d) Instruction

59. Which is a process or state of codes that carry a program state from one to another?

a) State transition b) Code Transition c) Node Transition d) None

60. Which is a table it represents the Petrinets.

a) Petri Table b) State Table c) Transition Table d) Node Table

61. A minimum unit for a scheduler to schedule the CPU and other system resources.

a) Thread b) Function c) Task d) State

62. A special variable used to take note of certain actions to prevent another task or process from proceeding

a) Thread b) Semaphore c) Semaphore d) Pipe

63. RPC stands for

a) Recursion procedure b) Remote procedure call c) Remote login d) Recursion process

64. A message or message pointer from a task that is addressed to another task.

a) Function b) Stack c) Socket d) Mailbox

65. A sending the messages used by and another task using these as I/P.

a) Pipe b) File c) Bus d) Transition

66. A state of a task that changes on scheduler directions.

a) State b) Task state c) Transformation d) Transition

67. TCB stands for

a) Task control Blockb) Thread control Blockc) Task central Blockd) Thread central Block68. PCB stands for

- a) Process Control Block b) Program Control Block
- c) Processor Central Block d) Processor Control Block

69. Which is a memory block for a queue or list of messages between an O/P- source & an I/P-sink.

a) Buffer b) Cache c) Register d) Segment

70. Which is a sequentially executing program & its state.

a) Process b) Task c) Thread d) None

71. Which semaphore is used to value which can be incremented and decremented and which is not a Boolean value.

a) Mutex b) Binary Semaphore c) P Semaphore d) N Semaphore

72. Helps in mutual exclusion of one task with respect to another by a scheduler in multitasking operations.

a) Counting semaphore b) Binary Semaphore c) P Semaphore d) None

73. Which is a client-server or peer-to-peer type of IPC.

a) Socket b) RPC c) Process d) Deadlock

74. Which provides the shortest message?

a) Signal b) Socket c) Process d) Buffer

75. May be a structured record on a RAM analogous to a disk and may also be either separately called RAM-disk.

a) File b) Stack c) Queue d) None

76. An OS that has functions for protocol stacks plus n/w device drivers.

a) NOS b) MULTOS c) MSDOS d) Unix

77. Each ready task cooperates to let a running one finish task is

a) Cooperative b) Preemption c) Mutual Exclusion d) None

78. If the scheduler cannot fix the schedules, it is called as a a) Non-deterministic situation b) Deterministic situation c) Known situation d) Unknown situation 79. In which method reasoning or past experience helps to define and fix the schedules. a) Heuristic Method b) Non-deterministic c) Hypothetic d) Historic 80. Is a method in which the different schedules can be fixed and the performance is simulated? a) Simulated Annealing Method b) Simulated Method c) Scheduling Method d) Timed method 81. A circuit which emulates the target system a) Emulator b) Assembler c) ICE d) Translato: 82. A plan for action for the development process a) Action b) Action Plan d) Phase c) Target 83. An ordering in which the lowest byte of a no is taken as first a) Little Endian b) Big Endian c) Bitrate d) Burning 84. CAN stands for a) Controller Area Network b) Central Area Network c) Control Associated Network d) Carrier Area Network 85. A tool for obtaining higher level codes from the machine code, which were assembled earlier. b) Dissembler a) Assembler c) Compiler d) Interpreter 86. Time taken to activate after an event or time taken in finishing certain codes before next one starts. b) Access Time a) Seek Time c) Latency d) Burning 87. An act of placing the ROM-image for code and data in uncompressed or compressed format in to an EPROM or EEPROM. a) Burning b) Compiling c) Loading d) Assembling 88. A programmable unit to perform sequential logic control functions. a) PCI b) UML c) PLC d) VLIW

89. No of processes or specified functions executed per unit time.

a) Latency b) ROM-image c) Life-cycle d) Throughput

- 90. A scope with a screen to display two signal voltages as a function of time.
 - a) Oscilloscope b) Stethoscope c) Rouge wave d) PLC
- 91. An assembler that assembles code for host machine for simulation & other purposed and later generates assembled code for the targeted processors.
 - a) Assembler b)Dissembler c) Cross-assembler d)Interpreter
- 92. A meter to measure throughput in bits per second and to count the 1s & 0s during a particular Interval of time.
 - a) Bit rate meter b) Stethoscope c) Oscilloscope d) Translator

93. PIN stands for

- a) Personal identification Number b) Peer identification Number
- c) Personal identity Number d) Public Identity Number

94. Smart card is plastic card in ISO standard dimensions

- a) 85.6mm x 53.98 x 0.80mm b) 85.6mm x 63.98 x 0.80mm
- c) 85.6mm x 53.98 x 0.90mm d) 86.5mm x 53.98 x 0.80mm

95. A bit at the ROM, which the processor uses for not letting the instructions and data in the protected Part on the system buses.

- a) Start Bit b) Protection Bit c) Stop Bit d) None
- 96. TTP stands for
 - a) Time Triggered Protocol b) Transport Triggered Protocol
 - c) Time Transport Protocol d) Travel Time Protocol
- 97. An algorithm that uses the prime number
 - a) DES b) RSA c) SHA d) None

98. A key embedded in ROM at the time of card fabrication so that the card gets a unique identity.

a) Fabrication Key b) Identity Key c) Personalization Key d) Primary Key

99. An operating system for automobile embedded system software

a) MULTOS b) Unix c) Linux d) OSEK-OS

100. A Java language format for smart card applications

a) Java Card b) JVM Card c) Network Card d) JSS Card

SECTION – B Explain micro controller? FPGA? cuit. co

- 1. Define a system & embedded system? Explain
- 2. Write short notes on micro processor, micro controller?
- 3. What is DSP, GPP, ASSP, ASIP, and FPGA?
- 4. Write short notes on register, reset circuit, cache memory?
- 5. What is ADC, PWM, DAC, and LCD?
- 6. Define multiplexer, de-multiplexer?
- 7. What is a compiler, interpreter, and assembler?
- 8. What is SOC? What are the components of SOC?
- 9. What is a Linker, Loader, and Locator?
- 10. What is a device programmer? Explain
- 11. What are the types of I/O devices?
- 12. What is issynchronous communication? Explain.
- 13. Explain asynchronous communication.
- 14. What are counting devices?
- 15. How does the interrupt mechanism work? Describe the interrupt vector table.
- 16. What is device driver, Explain device driver ISR.
- 17. What is a virtual device? Explain.
- 18. What is a serial port? Explain.
- 19. What is a buffer? Where is it used?
- 20. Write short note on a COM port?
- 21. Discuss about the concept of Software Engineering in embedded system.
- 22. What are the steps in Software Development Life Cycle?

- 23. Explain RAD model.
- 24. Explain Incremental model.
- 25. Explain Fourth Generation Language (4GL) model.
- 26. Write brief notes on Software Analysis?
- 27. Write brief notes on Software Design?
- 28. Write short notes on ADL?
- 29. What do you mean by Software Implementation? Discuss.
- 30. Discuss on Software Testing.
- 31. Define process, task, and thread.
- 32. What is semaphore? What are types of semaphores?
- Technology 33. Explain priority inversion problem and give a solution for it.
- 34. What is a mail box, Socket, RPC?
- 35. Explain about synchronization in detail.
- 36. What is PCB, TCB? What is the use of it?
- 37. Define Kernel, OS, and RTOS?
- 38. List the types of scheduling.
- 39. What is a Linux OS? Discuss about the features of Linux OS.
- 40. List some of the basic OS services.
- 41. What is an RTC? Explain its usage.
- 42. What is SCI? Explain.
- 43. Write short note on ACC?
- 44. Discuss about the embedded software in a smart card?
- 45. Discuss on embedded system project management?
- 46. What is an action plan? Explain.
- 47. Explain about conceptual design.
- 48. Explain about detailed design.
- 49. What is a targeted system, emulator, ICE?
- 50. What is MIP, MFLOP? Explain.

SECTION – C

- 1. Explain an embedded system with suitable example.
- 2. What is the use of processor in an embedded system?

- 3. What are classifications of embedded system? Explain in detail.
- 4. Explain the other hardware units in an embedded system.
- 5. Write about how software is embedded into a system.
- 6. Explain system on chip and in VLSI circuit used in exemplary embedded system.
- 7. Explain processor selection for an embedded system.
- 8. Discuss about the structural units in a processor in detail.
- 9. Discuss about four exemplary cases hardware units.
- 10. Discuss about four exemplary cases processors.
- 11. Explain about I/O devices in detail.
- 12. Explain synchronous communication.
- 13. List some useful Linux device drivers.
- 14. What is a timer? List the types of Timer.
- nology 15. What are the assigned priorities for the hardware and software?
- 16. Explain about parallel port devices.
- 17. What are timers and counting devices? Explain.
- 18. Explain about device drivers in detail.
- 19. What are the parallel port device drivers in an embedded system? Explain.
- 20. Explain about device drivers for internal programming timing devices.
- 21. Explain SDFG model.
- 22. Explain HSBFG model
- 23. Explain APEG model
- 24. What are the real-time programming issues in software development process? Explain.
- 25. What is timed and extended Petri nets?
- 26. Explain modeling processes for software analysis before software implementation.
- 27. Explain the programming models for event controlled or response time constrained real time programs.
- 28. How to model the microprocessor systems? Explain.
- 29. Explain the Software development process life cycle and its models.
- 30. Explain software analysis and software design in detail.
- 31. How to handle multiple processes in an application? Explain.
- 32. Discuss the problem of sharing data by multiple tasks and routines.
- 33. Write short note on a. P & V Semaphore b.Mutex c. Counting Semaphore

- 34. Explain Inter Process Communication with suitable examples.
- 35. Explain the Real-time embedded system OS with examples.
- 36. How are the interrupt routines in RTOS environment handled?
- Explain the RTOS task scheduling models, latency and response times of the tasks as Performance metrics.
- 38. Discuss the performance metric in scheduling models for periodic, sporadic and a periodic tasks.
- 39. Explain the concept of Performance modeling.
- 40. Discuss about Co-operative scheduling?
- 41. Discuss embedded system project management in detail.
- 42. Discuss about 4P's involved in software project management.
- 43. What do you mean by exemplary prototype development?
- 44. What do you mean by hardware-software trade-off?
- 45. What are the embedded system design and co-design issues in system development process? Explain.

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- 46. Explain the design cycle in the development phase for an embedded system.
- 47. Discuss the uses of targeted system, emulator and in-circuit emulator in detail.
- 48. Explain the usage of software tools for development of an embedded system.
- 49. Explain the use of scopes and logic analyzers for system hardware tests.
- 50. What are the issues in embedded system design? Explain.

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1. b) 2. a) 3. b) 4. b) 5. a) 6. a) 7. c) 8. c) 9. b) 10. 11. a) 81. a) 13. b) 14. a) 15. a) 16. a) 17. a) 18. b) 19. a) 20. 21. a) 22. b) 23. c) 24. a) 25. b) 26. c) 27. b) 28. b) 29. a) 30. 31. a) 32. a) 33. a) 34. a) 35. a) 36. b) 37. a) 38. a) 39. a) 40.	
21. a) 22. b) 23. c) 24. a) 25. b) 26. c) 27. b) 28. b) 29. a) 30. 31. a) 32. a) 33. a) 34. a) 35. a) 36. b) 37. a) 38. a) 39. a) 40.	. a)
31. a) 32. a) 33. a) 34. a) 35. a) 36. b) 37. a) 38. a) 39. a) 40.	. a)
31. a) 32. a) 33. a) 34. a) 35. a) 36. b) 37. a) 38. a) 39. a) 40.	
	. d)
	. a)
41. a) 42. a) 43. a) 44. a) 45. d) 46. d) 47. b) 48. b) 49. a) 50.	. a)
51. a) 52. a) 53. a) 54. a) 55. b) 56. b) 57. d) 58. d) 59. a) 60.	. a)
KO'	
61. a) 62. b) 63. b) 64. d) 65. d) 66. b) 67. a) 68. a) 69. a) 70.	. a)
71. a) 72. a) 73. a) 74. a) 75. a) 76. a) 77. a) 78. a) 79. a) 80.	. a)
81.a) 82. b) 83. a) 84. a) 85. b) 86. c) 87. a) 88. c) 89. d) 90.	. a)
91. c) 92. a) 93. a) 94. a) 95. b) 96. a) 97. b) 98. a) 99. d) 100	0. a)

KONGUNADU ARTS AND SCIENCE COLLEGE (Autonomous) COIMBATORE-641 029



QUESTION BANK

Subject code Title of the paper

15UIT4A4 INFORMATION SECURITY

DEPARTMENT OF INFORMATION TECHNOLOGY

JANUARY 2019

Prepared By:

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inder in the second sec Kongunadu Arts and Science College (Autonomous)

ology

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SECTION A

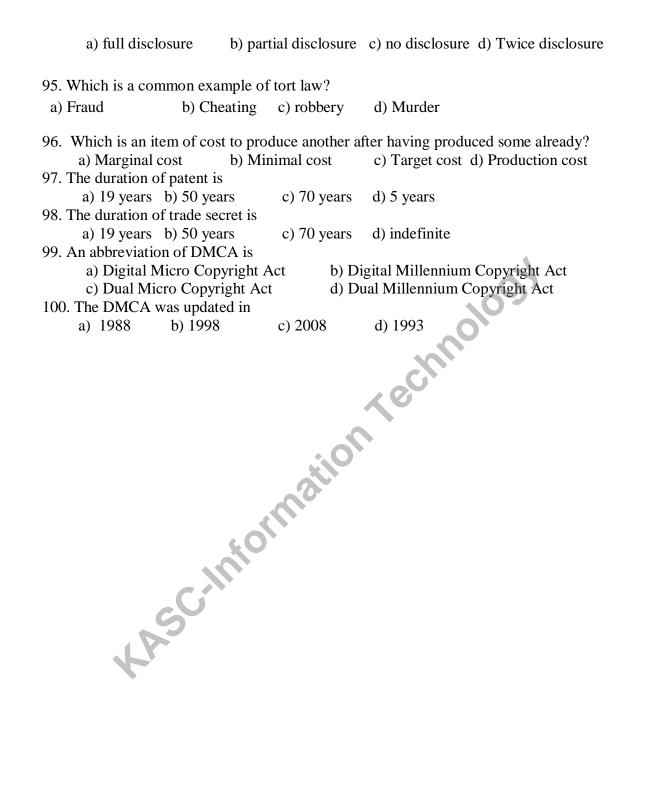
1. Which is a weakness in the security system?	
a) Threads b) Attacks c) Vulnerabilities	d) Controls
2. How many valuable components are there in computer	system?
a) 3 b) 2 c) 4	d) 5
3. How many kinds of threads in a computing system?	
a) 4 b) 2 c) 3	d) 5
4. What the MOM standard for?	
a) Method of Messaging b) Message of Mo	tive
c) Message Object Motive d) Method Object I	
5. How many aspect resides in a computer related system?	
a) 3 b) 2 c) 4	d) 5
6. Which is a harder than confidentiality?	0
a) Availability b) Vulnerabilities c) Integrity	d) Threads
7. Which is an opposite of denial of service?	
a) Availability b) Confidentiality c) Integrity	d) Threads
8. How many types of separations available in security of a	•
a) 3 b) 2 c) 5	d) 4
9. Which is the simplest form of protection?	
a) Relocation b) Fence c) Segmentation	d) Paging
10. Program is divided into equal size of pieces is known a	IS
a) Pages b) Capability c) Domain	d) Kerberos
	2
11. How many kind of users are there in an operating syste	
a) 3 b) 4 c) 2	d) 5
12. The basis for group membership is	
a) User to share b) Need to share c) All to share	d) Rise of share
13. How many protection classes in access control list?	1) 2
a) 4 b) 5 c) 2	d) 3
14. Memory is divided into equal size of units is known as	
a) Pages b) Page memory c) Page frame 15. Which is a collection of local data values?	d) Page segment
	d) Delegation
a) Pages b) Segmentation c) Fence	d) Relocation
16. Which register is used in upper limit address?a) Boundary b) Base c) Fence	d) Relocation
17. Which register is used in lower limit address?	u) Kelocation
a) Boundary b) Base c) Fence	d) Relocation
a) Boundary b) Base c) I chee	

18. List of files are called			
a) Directory b) Objects	c) Offset	d) Pages	
19. Which is a fixed size in operating system	n?		
a) Relocation b) Fence	c) Segment	d) Pages	
20. What is a TGM standard for?			
a) Ticket Granting Service b) Tic	ket Granting Serv	/er	
c) Ticket Granting Show d) Tic	ket Guide Service	e	
21. Quality in security has been	a a		
	flow c) flaws	d) unexpected behave	or
22. How many types are flaws in security? a) 6 b) 7	c) 4	d) 5	
23. Which is a hard to defect?	0) 1	u) U	
a)Virus b) Memory c) Da	ta d	l) Program	
24 Which can be a mistake in interneting		10-5	
24. Which can be a mistake in interpreting a a) Fault b) Virus c) Erro	-	d) Bug	
25. Which is the general name for unanticip		u) Dug	
	ry resident virus	c) Trojans d) Bo	oot Sector Virus
26. Which can be either transient or residen a) Trojans b) Flaws c) Vin		d) Bug	
		u) Dug	
27. Which locates itself in memory?			
a) Resident virus b) Boot Sector	Virus c) Men	nory resident virus	d) Trojans
28. Which is a class of malicious code?a) Trojansb) Trap doorc) Wo	d d	l) Logic bomb	
29. Which is a program that spreads copies			
a) Virus b) Worm c) Bug		d) Flaws	
30. Which is an undocumented entry point t		d) Doto	
a)Trap door b) Bugs c) Me	iiioi y	d) Data	
31. Which is a piece of malicious code?			
a) Logic bomb b) Signature c)		d) Virus code	
32. Which is another characteristic of modu		Dete	
a) Encapsulation b) Information hi 33. Which is the process of dividing a task		nents d) Data	
a) Root kit b) Encapsulation c) Modularization	
34. How many controls that could be applie	· •		
a) 4 b) 5 c) 3		l) 6	
35. Which virus can change its appearance?			
a) Resident virus b) Polymorphic	virus c) Memory	resident virus d) Bo	ot Sector virus
36. How many mode of transmission in Tro	jan malicious cod	le?	
a) 6 b) 3 c) 4	-	d) 5	
37. Which is an example of macro virus?			
			-

a) Error checking b) Testing c) Root kits d) Application program 38. What the TSR standard for? a) Terminate and Stay Resident Routines b) Terminate Search Root kits c) Trojan & Search Root kits d) Trojan & Stay Resident Routines 39. How many types of Trojan is there in a computing system? c) 6 d) 3 a) 8 b) 7 40. Which is a logic bomb whose trigger is a time or date? a) Trojan b) Time bomb c) Root kit d) Virus code 41. Which one is a collection of data and a set of rules that organize data by specifying certain relationship among the data? a) Database b) Front end c) Application d)Program 42. The logical structure of a database is called a) Sub schema b) Schema c) Abstraction d) Instance 43. Particular user may have access to only part of the database is called a) Sub schema b) Schema c) Abstraction d) Instance The name of each column in data base is known as 44. a) Attribute b) tuple c) relation d) Schema 45. The set of column is known as a) Tuple b) relation c) schema d) attribute 46. A command in a database is known as c)) schema b) relation a) Ouery d) attribute 47. Many users can use one common, centralized set of data is c) Controlled access d) Shared access a)consistency b) Integrity 48. This is a change to a data value affects all users of the data value a)consistency b) Integrity c) Controlled access d) Shared access 49. The data values are protected against accidental or malicious undesirable changes is a)consistency b) Integrity c) Controlled access d) Shared access 50. Only authorised users are allowed to view or modify data value is a) consistency b) Integrity c) Controlled access d) Shared access The data contained in each element are accurate is 51. Element integrity b) availability c) Subsystem d) Sub Function a) 52. The users can access the database in general and all the data for which they are authorised a)availability b) integrity c) confidentiality d) auditability How many requirements are needed for database security? 53. a)5 b) 10 c) 6 d) 12 54. The problem of obtaining data values from others is called a)availability b) inference c) integrity d) auditability 55. This is concern with database as a whole is protected against from damage b) element integrity c) element accuracy a) database integrity d) reliability This is concern with the value of specific data element is changed only by authorised user 56. a) database integrity b) element integrity c) element accuracy d) reliability

57.	This is concern that only correct values are written into the elements of a database.
	a) database integrity b) element integrity c) element accuracy d) reliability
58.	The first phase of update technique is
	a)Intent phase b) committing flag c) monitor d) shadow field
59.	The unit of a DBMS responsible for the structural integrity of the database
	a)Intent b) committing flag c) monitor d) transition constraints
60.	The condition of entire database is
	a)Monitor b) Intent c) transition d) State constraints
61.	A single computing system in a network is often called
	a) host b) node c) work station d) link
62.	A connection between two hosts is known as
_	a) host b) node c) work station d) link
63.	Which device is an end user device, usually designed for a single user at a time?
	a) host b) node c) work station d) link
64.	The way a network configured, in terms of nodes and connections is called the network is
	a) topology b) node c) work station d) link
65.	The most common network communication medium is
	a) wire b) satellite c) coaxial cable d) UTP
66.	Ethernet carrying up to
	a) 200 Mbps b) 100 Mbps c) 500 Mbps d) 1000 Mbps
67.	The bandwidth of optical fiber us up to
	a)200 Mbps b) 100 Mbps c) 1000 Mbps d) 500 Mbps
68.	The user level data activity is comes in
	a) Session b) Application c) Network d) Physical
69.	The sessions or logical connections between parts of an application
- 0	a)Session b) Application c) Network d) Physical
70.	The routing, message blocking into uniformly sized packets is
	a)Session (b) Application c) Network (d) Physical
71.	Which is not a characteristic of a LAN?
	a)Small b) Limited scope c) Locally controlled d) Single control
72.	Which is not a characteristic of a WAN?
= 0	a)Single control b) Physically exposed c) Covers a significant distance d) small
73.	Which is not a characteristic of an Internet?
-	a)Federation b) Enormous c) Heterogeneous d) Small
74.	Which one host pretends to be another?
	a)Masquerade b) Session hijacking c) Phishing d) Pinging
75.	Which one is intercepting and carrying on a sessions begun by another entity?
76	a) Masquerade b) Session hijacking c) Phishing d) Pinging
76.	Which one is a simple attack?
	a) Ping of death b) Smurf c) Syn flood d) Echo – Chargen

77. Which attack is a variation of a ping attack?
a)Ping of death b) Smurf c) Syn flood d) Echo - Chargen
78. Which is an attack between two hosts?
a) Ping of death b) Smurf c) Syn flood d) Echo - Chargen
79. Which is an IDS runs on a single workstation or client or host to protect that one host?
a)Host - based b) Signature based c) Network based d) Anomaly based
80. Which is an IDS performs simple pattern matching?
a)Host - based b) Signature based c) Network based d) Anomaly based
81. Which one protects the expression of ideas?
a) Copy rights b) Piracy c) Patents d) Trade secrets
82. Protecting inventions, tangible objects or ways to make them not works of the mind is
a) Copy rights b) Piracy c) Patents d) Trade secrets
83. Which is information that gives one company a competitive edge over others?
a) Copy rights b) Piracy c) Patents d) Trade secrets
84. Which is a law that states explicitly that certain actions are illegal?
a) Copy rights b) Piracy c) Statutes d) Trade secrets
85. How many things a contract must involves?
a) one b) two c) three d) Four
86. Which theory of ethics focuses on the consequences of an action?
a) Teleological b) Egoism c) Utilitarianism d) Deontology
97 Which is the form that any ment indement hand an active housefts to never a decision?
87. Which is the form that says moral judgment based on positive benefits to person's decision?a) Teleological b) Egoism c) Utilitarianism d) Deontology
a) Teleological b) Egolsin (c) etintarianisin (d) Deolitology
88. Which is an assignment of good and bad results, but the reference group in entire universe?
a) Teleological b) Egoism c) Utilitarianism d) Deontology
89. Which is founded in a sense of duty?
a) Teleological b) Egoism c) Utilitarianism d) Deontology
90. Which is thankfulness for previous services or kind acts?
a) Reparation b) fidelity c) gratitude d) justice 91. Which one is a truthfulness?
a) Reparation b) fidelity c) gratitude d) justice
92. Which one is not harming others?
a) Reparation b) fidelity c) gratitude d) nonmaleficence
93. The seriousness of the vulnerability and apply appropriate protection is
a) full disclosure b) partial disclosure c) no disclosure d) Twice disclosure
94. The general nature of the vulnerability is



SECTION B

- 1. How to protect valuables?
- 2. What are the characteristics of computer intrusion?
- 3. What are the four kinds of threats?
- 4. Give a short note on MOM.
- 5. What are the security goals of a computing system?
- 6. Give a short note on Fence register.
- 7. What are the types of separation?
- echnology 8. Write short notes about access control matrix.
- 9. Give a short note on Kerberos.
- 10. What are the guessing steps of a password?
- 11. What are the types flaws?
- 12. Give a short note on buffer overflows.
- 13. Give a short note on incomplete mediation.
- 14. What are the types of malicious code?
- 15. How a virus does surround a program?
- 16. Explain about the virus signatures?
- 17. What are the sources of a virus?
- 18. Explain the internet worm.
- 19. Give a short note code red virus.
- 20. Give a short note on web bugs.
- 21. What are the components of a database?.
- 22. What are the advantages using a database?
- 23. List out the requirements for database security.
- 24. Give a short note on integrity of a database.
- 25. Write a short note on SQL injection.
- 26. What are the three dimensions of a reliability and integrity?
- 27. Give short notes about two phases update.
- 28. Give a short note on range comparisons.
- 29. What are the three characteristics of database security?

- 30. Give a short note on commutative filters.
- 31. What are the characteristics of a network?
- 32. Explain about the shape and size of a network?
- 33. What are the Medias of a network?
- 34. Write a short note on protocols.
- 35. Give a short note on addressing.
- 36. Explain about layering concept in network.
- 37. Give a short note on TCP/IP.
- 38. Write a short on routing concepts.
- 39. Write short notes about LAN
- 40. Give a short note on WAN.
- 41. What are the applicability of patents of computer objects?
- 42. What are the requirements for registering a copyright?
- 43. Give a short note on copy rights for computer software.
- 44. Write short notes about copyright infringement.
- 45. Give a short note on patent infringement.
- 46. Differentiate the copy right, patent, trade secret protection.
- 47. How to protect firmware?
- 48. Write the example of ethical principles.
- 49. What are the steps to making and justifying an ethical choice?
- 50. Differentiate the law and ethics.

SECTION C

- 1. Discuss in detail about attacks of a computing system.
- 2. Write in detail about vulnerabilities.
- 3. Explain in detail about computer criminals.
- 4. Explain the security methods of an operating systems.
- 5. Discuss in detail about relocation.
- 6. Explain about the paging.
- 7. Explain in detail about the directory.
- 8. Explain about the access control list.
- chnology 9. Explain about the various file protection mechanisms.
- 10. What are the criteria for password selection? Explain.
- 11. What are the kinds of malicious codes? Explain.
- 12. What is the home for the virus? Explain.
- 13. Write down the virus effects and its causes.
- 14. What are the several techniques for building a safe community for electronic contact?
- 15. What are the truth and misconception about viruses?
- 16. Explain the man in the middle attack.
- 17. Explain about the covert channels.
- 18. Describe about timing channels.
- 19. Explain in detail about the nature of software development.
- 20. Explain about the configuration management.
- 21. Describe the components of database.
- 22. Explain about the user authentication and audit ability of a data base
- 23. Describe the monitors.
- 24. Explain about the security issues of a database.
- 25. Explain about the separation in a database.
- 26. Explain about the integrity lock.
- 27. Explain about the trusted front end.
- 28. Explain about the window/view.
- 29. Describe the privacy and sensitivity of data mining.
- 30. Describe the data correctness and integrity.

- 31. Describe the ISO OSI reference model.
- 32. Explain about the types of networks.
- 33. What makes a network vulnerable? Explain.
- 34. What are the categories of attack? Explain.
- 35. Who attacks network? Explain.
- 36. Discuss in detail about the reconnaissance.
- 37. Explain the pinging.
- 38. Explain the eavesdropping and wiretapping.
- 39. Explain the masquerade.
- 40. What are the types of IDS? Explain.
- 41. Explain about the copyrights.
- 42. Explain about the copy rights for digital objects.
- 43. Describe the patents.
- 44. Explain about the trade secrets.
- echnology 45. What are the legal issues relating to information? Explain.
- 46. Explain about the contract law.
- 47. Why a separate category for computer crime is needed? Explain.
- 48. Why computer crime is hard to define? Explain.
- 49. Why computer crime is hard to prosecute?
- 50. Explain about the examples of statutes. NASC

KEY ANSWER

- 1. c) Vulnerabilities
- 2. a) 3
- 3. a) 4
- 4. d) Method Object Motive
- 5. a) 3
- 6. c) Integrity
- 7. a) Availability
- 8. d) 4
- 9. b) Fence
- 10. a) Pages
- 11. c) 2
- 12. b) Need to share
- 13. d) 3
- 14. c) Page frame
- 15. b) Segmentation
- 16. a) Boundary
- 17. b) Base
- 18. a) Files
- 19. a) Relocation
- Server mation 20. b) Ticket Granting Server
- 21.) Fixing faults
- 22. a) 6
- 23. a) Virus
- 24. d) Bug
- 25. a) Malicious code
- 26. c) Virus
- 27. a) Resident virus
- 28. d) Logic bomb
- 29. b) Worm
- 30. a) Trap door
- 31. c) Root kit
- 32. b) Information hiding
- 33. d) Modularization
- 34. c) 3
- 35. b) Polymorphic virus
- 36. a) 6
- 37. b) Testing
- 38. a) Terminate & Stay Resident Routines

39. a) 8

40. b) Time bomb

41. a)Database

42. b) Schema

43. a) Sub schema

44. a) Attribute

45. b) relation

46. a) Query

47. d) Shared access

48. a) consistency

49. b) Integrity

50. c) Controlled access

51. a) Element integrity

52. a) availability

53. c) 6

54. b) inference

55. a) database integrity

56. b) element integrity

hiormation 57. c) element accuracy

58. a) Intent phase

59. c) monitor

60. d) State constraints

61. b) node

62. d) link

63. c) work station

64. a) topology

65. a) wire

66. b) 100 Mbps

67. c) 1000 Mbps

68. b) Application

69. a) Session

70. c) Network

71. d) Single control

72. d) small

73. d) Small

74. a) Masquerade

75. b) Session hijacking

76. a) Ping of death

77. b) Smurf

78. d) Echo – Chargen

- 79. a) Host based
- 80. b) Signature based
- 81. a) Copy rights
- 82. c) Patents
- 83. d) Trade secrets
- 84. c) Statutes
- 85. c) three
- 86. a) Teleological
- 87. b) Egoism
- 88. c) Utilitarianism

- ...arginal cost #/. a) 19 years 98. d) indefinite 99. b) Digital Millennium Copyright Act 100. b) 1998

KONGUNADU ARTS AND SCIENCE COLLEGE (AUTONOMOUS) COIMBATORE-641029



QUESTION BANK

SUBJECT CODE: 15UIT306 TITLE OF THE PAPER: JAVA PROGRAMMING

DEPARTMENT OF INFORMATION TECHNOLOGY

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inology KONGUNADU ARTS & SCIENCE COLLEGE (AUTONOMOUS) DEPARTMENT OF INFORMATION TECHNOLOGY

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3	SECTION C	12-14
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	SECTION A	

Section-A

1. Java is a	
a. Object Based Language	b. Object Language
c. Object oriented language	d. Procedure Language
2. Program are divided into what are k	nown as
a. Object b. Class	c. Interface d. Inheritance
3. Basic runtime entity is.	
a. Object b. Class	c. Interface d. Inheritance
4. The wrapping up of data and metho	ds into a single unit is known as
a. Inheritance b. Polymorph	ism
c. Encapsulation d. Ove	er Loading
5. One Class acquires the objects of th	e properties of another class is called
a. Inheritance b. Po	lymorphism
c. Encapsulation d. Over Loa	ıding
6. Java language is originally called a	is O
a. Greek b. Oak	c. BASIC d. UNIX
7. Java was released in the year	
a.1992 b.1991 c. 1993	d. 1998
8. J2SE with SDK 1.4 was released in	the year
a. 2001 b. 2003	c. 2004 d. 2002
9. Smallest individual unit in a program	
a. Function b. Method	c. Token d. Thread
10. The compiler used to convert source	•
a. javap b. javah c. ja	·
11. In Java the name of the class to be	
a. Interfaceb. Identifier c. Van	iable d. Key word
12. Java Statement must end with	
	nicolon d. dot
13. The first statement allowed in a java	
a. Class b. Package c. Inte	erface d. Abstract

14. Programmer-designed tokens is. a. Variables b. Identifiers c. Both A and B d. None 15. The statement that pass control to the beginning or end is a. Break b. Continue c. Goto d. Jump 16. Java Compiler produce an Intermediate code called. a. Bit Code b. Byte Code c. Stream Code d. Object Code 17. Byte code program is executed using the Interpreter a. javap b. javah c. javac d.java 18. JVM Stands for a. Java Visual Machine b. Java Virtual Machine c. Javac Virtual Machine d. Javap Virtual Machine 19. Java Application Program involves ______ steps d. 3 a. 2 b.4 c.5 20. In java the statement is used to include the header files is c. #include a. Import b. Include d. Package 21. A Collection of methods and Variables is called b. Object C. Reference d. Function a. Class 22. Object in java are created using the Operator. b. Ref a. New c. Final d. Old 23. The Operator used to access the class variables and Methods. b. Ref d. Old a. New c. Dot 24. To create methods that has the same name, but different parameters and different definitions is called a. Operator Overloading b. Method Overloading c. Polymorphism d. Virtual Function 25. Class variables are also called as a. Instance variable b. Global variable c. Static variable d. Final variable 26. Class methods are also called as a. Instance method b. Global method c. Static method d. Final method

27. The keyword used to create a members associated with class rather than
individual Objects is
a. Instance b. Global c. Static d. Final
28. A Method can be called by using only its name of another method of the same
class is known as the method.
a. Local b. Nested c. Instance d. Ladder
29. To Inherits Members from one class to another class. This concept is called
a. Polymorphism b. Inheritance c. Overloadingd. None
30. If there is one Super Class and one Sub Class. Then the inheritance is called as.
a. Single b. Multiple c. Multilevel d. Hybrid
31. The Inheritance that java does not support is
a. Single b. Multiple c. Multilevel d. Hybrid
32. The methods of an abstract class must be define in its subclass is
a. Virtual b. Abstract c. Void d. Int
33. The Least restrictive modifier is
a. Public b. Private c. Protected d.Default
34. Most restrictive of all the access modifier is
a. Public b. Private c. Protected d.Default
35. Errors may broadly be classified into the categories.
a. 2 b. 4 c. 3 d. 6
36. All Syntax errors will be detected and displayed by the java complier these
errors are known as error called.
a. Run-Time b. Compile-Time c. Both d. None
37. "Dividing an Integer by Zero" .This Error comes under the category of Error.
a. Run-Time b. Compile-Time c. Both d. None
38. The condition that is caused by a run-time error in the program is
a. Error b. Exception c. Hit d. Handle
39. The type of error found by Arithmetic Exception is.
a. Math b. Array c. String d. File
40. The Statement that can be used to handle an exception that is not caught by any
of the previous catch statement is
a. Finalb. Finally c. Try d. Catch

41. What is similar to a Program that has a single flow of Control.
a. Program b. Thread c. Task d. Instruction
42. Every Program has at least how many number of Threads.
a. 2 b. 1 c. 3 d. 6
43. A Program that contains multiple flows of controls is known as
a. Single Threaded program b. Multiple Threaded program
c. Multi Threaded program d. None
44. Threads are implemented in the form of objects that contains a method called.
a. start () b. stop () c. run() d. destroy ()
45. The number of ways that new thread can be created is .
a. 2 b. 4 c. 3 d. 6
46. At the time of creating a new thread we should extends a class called.
a. Runnable b. Thread c. Applet d. None
47. The number of states in Thread Life Cycle is.
a. 2 b. 4 c. 5 d. 6
48. The Thread is Born and is said to be in the State called
a. Runnable b. Newborn c. Blocked d. Dead
49. The State that the thread is ready for execution and is waiting for the availability
of the processor is.
a. Runnable b. Newbornc. Blocked d. Dead
50. The processor has given its time to the thread for its execution. Then the thread
is said to be in the state called.
a. Running b. Newborn c. Blocked d. Dead
51. A Thread to sleep for a specified time period using the method called.
a. suspend() b. notify() c. sleep() d. resume()
52. A thread is considered as "not runnable" but not dead is.
a. Runnable b. Newborn c. Blocked d. Dead
53. The interface that declares the run() method is.
a. Runnable b. Newborn c. Blocked d. Dead
54. Peer class of String is
a. StringClass b. StringBuffer c. Vector d. StringBuf

55.	String method use	d to convert the	Lower Case in	to Upper Case i	S
	a. toLower	Case() b. tol	UpperCase()	c. Upper	d. Lower
56.	Java Packages can	be divided into '	Types.		
	a. 2	b. 4	c. 3	d. 5	
57	Java API Packages	can be classifie	d into the Type	S	
	a. 2	b. 4	c. 3	d. 6	
58.	In Java default pac	kage is.			
	a. io	b. awt	c. lang	d. net	
59. '	The package used	to create a graph	nical user interf	face is.	2
	a. io	b. awt	c. lang	d. net	0,
60.	In Java Package	io stands for			
	a. Input Ou	tput b. Inj	put Out c. In (Out d. In	Output
61.	In Applet Progra	m the attribute u	used to specify	the name of the	e applet is
	a. ALIGN b. C	CODEBASE	c. CODE	d. HSPACE	
62.	The tag used to a	align the Paragra	ph is		
	a. <p></p>	b. <b< b=""></b<>	> c. <t> </t>	d. <i></i>	
63.	The Class in java	that includes m	ethods for drav	ving many diffe	erent types of
:	shapes is				
	a. AWT	b. Graphics	c. Paint	d. Ve	ector
64.	Every applet has	its own area of t	he screen know	vn as	
	a. Canvas	b. Frame	c. Layout	d. Grid	
65.	The drawLine m	ethod takes coor	rdinates of pair		
	a. 2	b. 4	c. 5	d. 6	
66.	Number of argum	nents in the draw	Rect method i	S	
	a. 2	b. 4	c. 5	d. 6	
67.	The method use	d to fill the arc is	8.		
	a. fillArc()	b.drawA	rc()	c. Both d. No	one
68.	The method use	d to retrieve the	currently used	font is.	
	a. setColor	b. SetFont	c. ge	tFont() d. Se	tFont()
69.	The method use	d to retrieve the	information ab	out the current	ly used font is.
	a. setColor	() b. SetFont() a	e. getFont() d.	getFontMetrics	0

70. The Polygon met	hod takes the Ar	guments.	
a. 2	b. 4	c. 3	d. 6
71. Set of lines conne	ected together is	considered as.	
a. Rectangle	e b. Triangle	c. Circle	d. Polygon
72. A File is collection	on of related.		
a. Fieldb. A	ttributes c. 1	Data Base	d. Records
73. Storing and mana	ging data using	files is known	as.
a. File proce	essing b.	Attribute proce	ssing
c. Data Base p	rocessing d. Re	cord processing	g
74. The Process of re	eading and writi	ng objects is ca	lled as the Serialization.
a. Class	b. Object	c. File	d. Record
75. The package that	contains a large	number of stre	eam classes is.
a. io	b. lang	c. awt	n. applet
76. The Stream class	es that provides	support for har	ndling I/O operations on bytes.
a. Character	b. By	te c. Input	d. Output
77. Number of byte S	tream Classes th	nat java provide	es is.
a. 2	b. 4	c. 3	d. 6
78. Input stream class	ses that are used	to read 8 bit by	ytes include a super class known
as.	60		
a. Character	stream	b. Bytestrear	n
c. Input stream		d. Outputstream	m
79. The method used	to read a byte f	rom the input s	tream is
a. read()	b. skip(n)	c. reset()	d. available()
80. The method used	to reads an arra	y of bytes into	b is
a. read()	b. read(byte)	b[]) c. res	et() d. available()
81. AWT is			
a. Abstract Window			
	ving Toolkit	b.Abstract W	indow Toolkit
c.Application Wind	•		/indow Toolkit on Window Toolkit
c.Application Wind 82. Number of compon	lowing Toolkit	d. Applicatio	
	lowing Toolkit ents in border la	d. Applicatio	
82. Number of compor	lowing Toolkit ents in border la d. 3	d. Applicatio	

84. An abstract superclass for various AWT components is .
a. Component b.Container c.dialog d.Canvas
85. Subclass of component that can hold other component is
a. Component b.Container c.dialog d.Canvas
86. The layout in which component that are positioned from left to right and top to
bottom is
a. flow layout b. card layout c.grid layout d. border layout
87. The default layout is
a. flow layout b. card layout c.grid layout d. border layout
88. Concrete subclass of container is
a. canvas b. panel c.dialog d. frame
89. The standard window that has a titlebar and resize corners is
a. canvas b. panel c.dialog d. frame
90. The user interface element that control the appearance of the display is
a.UI component b.Container c. Layoutmanager d. component
91. The class that implements a scrollable list of text item is
a.list b. choice c.checkbox d. checkboxgroup
92. The abstract subclass of the abstract class component is
a. Component b.Container c.dialog d.Canvas
93. The subclass of the panel class is
a. Applet b. canvas c.dialog d. frame
94. Subclass of a window is
a. Applet b. canvas c.dialog d. frame
95. The user interface component that has two states is
a. choice b. list c. checkbox d. CheckboxGroup
96. The class divides the screen into equal sized rows and columns producing a
spreadsheet arrangement is
a. flow layout b. card layout c.grid layout d. border layout
97. The layout manager that does not attempt to resize the components is
a. flow layout b. card layout c.grid layout d. border layout
98. The object that generates an event is
a.Event b.EventSource c.EventListener d.Event Adapter

99. The object that is notified when an event occurs is

a.Event b.EventSource c.EventListener d.Event Adapter

- 100. The class creates a top level window without title, menu or border is
 - a. Window d. frame b. applet c.dialog

Section-B

- 1. Explain Java History
- 2. List out Java Features
- 3. Explain Java Architecture.
- 4. What is JDK?
- rechnology 5. What are the types of Java Program? Explain
- 6. How to declare a Variable in Java?
- 7. What are Java Tokens?
- 8. What is a Multidimensional Array?
- 9. What are the Selection Constructs in Java?
- 10. Write a note on Jump Statements in Java.
- 11. What is Constructor Overlanding? Explain
- 12. Write a note on the this Reference.
- 13. What is Recursion?Explain.
- 14. What are the Access Modifiers in Java?
- 15. Write a note on Command Line Arguments.
- 16. Write a note on The super Reference.
- 17. What is Method Overriding?Explain..
- 18. Write a note on the Final Keyword in Java.
- 19. How to define an Interface in Java?Give example.
- 20. What are the Types of Exceptions.
- 21. Discuss about the Concept of Threads.
- 22. Write a note on the Runnable Interface.
- 23. How to create Threads using Runnable Interface?Explain.
- 24. Write notes on Thread Priorities.

- 25. What is Inter-Thread Communication?
- 26. What is a Package?
- 27. Write notes on The import Statement.
- 28. Write a note on String Class.
- 29. How to Concatenate a String? Give Example
- 30. Write a note on regionMatches() method.
- 31. Write a note on the File Class.
- 32. What are InputStream and OutputStream Classes?
- 33. How to list Directories in java?Give Example.
- 34. Explain Reader and Writer Classes.
- 35. Write notes on FilenameFilter Interface.
- rechnology 36. Write notes on FileReader and FileWriter classes.
- 37. Explain Random Access File.
- 38. List out the Methods in File Class.
- 39. How to Run an Applet?Explain.
- 40. Write notes on the Color Class?
- 41. List out the classes in AWT.
- 42. Explain TextField component with an example.
- 43. Write a note on Label Control with example.
- 44. Write note on the List class with an example.
- 45. Write notes on the Container Class.
- 46. Explain Dialog class with an example.
- 47. Explain FlowLayout with an example.
- 48. Explain CardLayout with an example.
- 49. What is Event Delegation Model.
- 50. What are the methods in WindowListener?

Section -C

- 1. Explain OOPs Concepts
- 2. What are the different data types in Java?Explain.

- 3. What is a Class? How to define a Class in Java?
- 4. What is an Array?What are the different types of Array?
- 5. Explain Operators in Java.
- 6. Explain Selection Constructs with an example.
- 7. What are Jump statements in Java?
- 8. What are Instance Variables and Class Variables?
- 9. What is a Method ?How to declare a method in Java?
- 10. Explain Constructors with an example.
- 11. Explain Method Overloading with an example.
- 12. Explain Method Overridding with example.
- 13. What is Inheritance?What are its types.
- 14. What are Abstract Classes and Methods? Give example.

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- 15. How to Implement an Interface?Explain with example.
- 16. What are the Fundamentals of Exception Handling?
- 17. How to Handle Exceptions?Explain.
- 18. Explain throw and throws clause with an example.
- 19. Explain Exception Class
- 20. What are User Defined Exception? Explain.
- 21. Explain the concepts of Thread.
- 22. Explain Thread's Life Cycle.
- 23. Discuss about the Thread Creation using Thread Class.
- 24. Explain Synchronization and Deadlock.
- 25. What is a Package?How to create a Package?Explain.
- 26. Explain Java API Packages
- 27. How to create Strings in Java?Explain.
- 28. Explain String Constructors.
- 29. Discuss about Operations on Strings.
- 30. What are the String Comparison methods in Java?Explain
- 31. Explain FileInputstream and FileOutput Stream with an example.
- 32. Explain RandomAccessFile Class.
- 33. List out the methods of InputStream and OutputStream.
- 34. Explain FilterInputStream and FilterOutputStream with example.

- 35. Explain StreamTokenizer class with example.
- 36. Write notes on the basics of Applet class.
- 37. Explain the Life cycle of Applet?
- 38. What are the Methods of the Applet Class?Explain.
- 39. Explain Font class in Java with example.
- 40. Explain FontMetrics Class.
- 41. How to create Labels and Buttons in Java? Give example.
- 42. Explain Checkbox and CheckboxGroup components with an example.
- rechnologi 43. What are the Various Container classes in Java?Explain
- 44. Explain Menus with an example.
- 45. Explain GridLayout in Java with an example.
- 46. Explain FlowLayout with an example.
- 47. Explain BorderLayout with an example.
- 48. What are Event Classes?Explain.
- 49. Explain ActionListener with an example.
- 50. Explain MouseListener and MouseMotionListener with an example.

AnswerKey (Section A)

- 1. c.Object Oriented Programming
- 2. a.Object
- 3. a.Object
- 4. c.Encapsulation
- 5. a.Inheritance
- 6. b.Oak
- 7. a.1991
- 8. d.2002
- 9. c.Token
- 10. c.javac
- 11. b.Identifier
- 12. c.Semi colon
- 13. b.Package

- 14. c.Both A and B
- 15. c.Goto
- 16. b.Bytecode
- 17. d.java
- 18. c.Java Virtual Machine
- 19. a.2
- 20. a.Import
- 21. a.Class
- 22. a.New
- 23. a.Dot
- connotion technology 24. b.Method Overloading
- 25. a.Instance
- 26. a.Instance
- 27. c.Static
- 28. b.Nested
- 29. b.Inheritance
- 30. a.Single
- 31. b.Multiple
- 32. b.Abstract
- 33. a.Public
- 34. b.Private
- 35. a.2
- 36. b.Compile-Time
- 37. a.Run-Time
- 38. b.Exception
- 39. a.Math
- 40. b.Finally
- 41. b.Thread
- 42. b.1
- 43. c.Multi Threaded program
- 44. c.run()
- 45. a.2

- b.Thread 46.
- 47. c.5
- 48. b.Newborn
- 49. a.Runnable
- 50. a.Running
- c.Sleep() 51.
- 52. c.Blocked
- 53. a.Runnable
- 54. b.StringBuffer
- cumomation technology 55. b.toUpperCase()
- 56. a.2
- 57. d.6
- 58. c.lang
- 59. b.awt
- a.Input Output 60.
- 61. c.CODE
- 62. a.<P></P>
- 63. **b**.Graphics
- 64. a.Canvas
- 65. a.2
- 66. b.4
- a.fillArc() 67.
- 68. c.getFont()
- d.getFontMetrics() 69.
- 70. c.3
- d.Polygon 71.
- 72. d.Records
- 73. a.File
- 74. c.File
- 75. a.io
- 76. b.Byte
- 77. a.2

- c.InputStream 78.
- 79. a.read()
- b.read(byte b[]) 80.
- a.Abstract /windowing toolkit 81.
- 82. b.5
- 83. a.Choice
- 84. a.Component
- 85. b.container
- a.flowlayout 86.
- a.flowlayout 87.
- 88. b.panel
- 89. d.frame
- hiormation 90. c.layoutmanager
- 91. a.list
- 92. b.container
- 93. a.applet
- 94. d.frame
- 95. c.checkbox
- 96. c.gridlayout
- b.cardlayout 97.
- 98. b.Eventsource
- 99. c.Eventlistener
- 100. a.Window

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: 15UIT4A4 MICROPROCESSOR, PC- HARDWARE AND INTERFACING

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SECTION-A

Choose the correct answer

- 1. Printer is usually connected to
 - (a) LPT1 connector, (b) COM1 connector, (c) COM2 connector, (d) USB connector
- 2. MODEM is usually connected to
 - (a) LPT connector, (b) COM1 or COM2 connector, (c) USB connector, (d) PS/2 Port
- 3. Mouse serves as

(a) Input device, (b) output device, (c) both input and output devices (d) None

4. Which one of the following secondary storage devices stores huge amount of data/ program

(a) hard-disk, (b) floppy disk, (c) CD-ROM disk (d) Magnetic disk

5. Which of the following ports allows dynamic attachment and detachment of peripherals to the PC?

(a) Parallel port (b) serial port (c) USB port (d) Enhanced port

- 6. Scanners serve as
 - (a) Input devices (b) output devices (c) both input and output devices (d) None
- 7. Which one of the following memory devices loses its contents when power to the device fails?
 - (a) ROM (b) RAM (c) flash memory (d) PROM
- 8 Which of the following operations is performed by microprocessor to get data from input device?

(a) I/O read, (b) I/O write, (c) memory read, (d) memory write

- 9 Which of the following operations is performed by microprocessor to write data into memory device?
 - (a) I/O read, (b) I/O write, (c) memory read, (d) memory write
- 10. Address lines of the microprocessor are
 - (a) Input lines, (b) output lines, (c) bidirectional lines
- 11. Data bus lines of the microprocessor are
 - (a) Input lines, (b) output lines, (c) bidirectional lines

- 12. 8086 microprocessor is a
 - (a) 8-bit processor, (b) 16-bit processor, (c) 32-bit processor
- 13. The size of 8086 queue is
 - (a) 4 bytes, (b) 6 bytes, (c) 8 bytes, (d) 16 bytes
- 14. The most important advantage of segmentation scheme of 8086 is
 - (a) It can access more memory, (b) it can address more I/O, (c) its programmers are relocatable
- 15 The number of flags present in the flag register of 8086 microprocessor is (a) 3, (b) 5, (c) 6, (d) 9
- 16 The number of memory locations that can be addressed by an 8086 microprocessor is chno (a) 64KB (b) 1 MB (c) 16MB (d) 16GB
- 17 The size of a segment in 8086 is (a) 64KB, (b) 1 MB, (c) 16MB, (d) 16GB
- 18 Which one of the following arithmetic/logic operations is performed by the destination, source' instruction for the testing? (a) Addition, (b) subtraction, (c) AND (d) OR
- 19. The source for the Rotate or Shift instructions should be in (a) AL registers, (b) AX register, (c) any internal register, (d) any register or a re location
- 20. Which one of the following segments is used by the 'CMPSB' string instruction destination?
 - (a) Code segment, (b) data segment, (c) extra segment, (d) stack segment
- 21. The parameter provided with a 'short' type JMP instruction is a
 - (a) Byte (b) word (c) double word (d) Status
- 22. The size of parameter provided with a 'far' type JMP instruction is a
 - (a) Byte (b) word (c) double word (d) Status word
- 23. The last instruction in a subroutine program should be
 - (a) JMP, (b) RET, (c) IRET, (d) any instruction
- 24. The last instruction in an interrupt service routine should be

- (a) JMP, (b) RET, (c) IRET, (d) any instruction
- 26. LOOP' instruction basically (a) Decrements CL, (b) decrements CX, (c) tests the value in CX, (d) decrements and tests value in CX
- 27. The Memory space allocated for a variable by 'DB' definitions (a) one byte, (b) two bytes, (c) four bytes
- 28. The memory space allocated for a variable by 'DW definition is (a) one byte, (b) two bytes, (c) four bytes
- The memory space allocated for a variable by defining the variable as type 'DD' is 29. noloc (a) one byte, (b) two bytes, (c) four bytes
- The width of address bus of 8086 microprocessor is 30.

(a) 8 bit, (b) 16-bit, (c) 19-bit, (d) 20-bit

- The Width of the data bus in 8086 microprocessor based systems is 31. (a) 8 bit, (b) 16-bit, (c) 19-bit, (d) 20-bit
- 32. The number of pins in 8086 microprocessor is (a) 24 (b) 28, (c) 40, (d) 64
- Which one of the following signals is used for interfacing slow memory or I/O 33. devices microprocessor?

(a) CLK (b) RESET, (c) READY

- 34. Compared with SRAM, the DRAM devices (a) are slow, (b) have low packing density, (c) are expensive, (d) do not require refresh
- 35. Flash memory is

(a) PROM, (b) EPROM, (c) EEPROM

36. When microprocessor reads 8-bit data from even addressed memory location, the active data bus lines are

(a) D7-D0, (b) D15-D8, (c) D15-D8 simultaneously,

(d) D15-D8 in the first cycle, D7-D0 in the next cycle

37. When microprocessor reads 16-bit data from odd addressed memory location, the active data bus lines are(a) D7-D0, (b) D15-D8, (c) D15-D8 simultaneously, (d) D15-D8 in the first.

D7-D0 in the next cycle

- 38. Which one of the following interrupts occurs if Trap flag is set? (a) divide-by-zero,(b) single step, (c) non-maskable interrupt, (d) breakpoint
- 39. When an interrupt signal is applied to NMI input pin of 8086 microprocessor, which of the following interrupt-types occurs?(a) Type-0, (b) Type-1, (c) Type-2, (d) Type-3
- 40 Memory locations holding the address of interrupt service routine of the Type-08H (a) 00000H-00003H, (b) 00008H-0000BH, (c) 00010H-00013H,
 - (d) 00020H-000231H
- 41 An additional operation performed by the IRET instruction than RET instruction is(a) It clears TF and, IF flags, (b) it restores CS and IP registers, (c) it restores flags(d) None of the above
- 42. Which of hardware interrupt can be disabled through instructions?
 - (a) NMI, (b) INTR
- 43. How many hardware interrupt requests can be processed by a single interrupt controller IC 8259A,
 - (a) 8 (b) 15, (c) 16, (d) 64
- 44 Among the following interrupts which one takes top priority?(a) divide-by-zero, (b) NMI, (c) INTR, (d) single-step
- 45 Among the following interrupts which one takes least priority?

(a) divide-by-zero, (b) NMI, (c) INTR, (d) single-step

- 46. DMA request is usually initiated by
 - (a) Peripheral, (b) microprocessor, (c) memory, (d) none of the above
- 47. DMA write involves
 - (a) Memory read and I/O write, (b) I/O read and memory write

<u>Unit II</u>

- 48. The method of data transfer between the microprocessor and the peripherals by Synchronizing the timing of data transfer by exchange of signals is known as
 (a) DMA controlled I/O (b) interrupt driven I/O (c) polling (program I/O)
 (d) Handshaking I/O
- 49. In handshake I/O input operation, the names of the handshake signals are(a) STB and IBF, (b) ACK and OBF
- 50. DMA transfer is controlled completely by(a) software, (b) hardware
- 51 In which one of the following modes of 8255 the input port is not latched?

(a) mode-0, (b) mode-1, (c) mode-2

52. Which bit of Port-C is tested to determine if a data output by the microprocessor into Port-B (configured to mode-1, output operation) is transferred to the peripheral or not?

(a) PC7, (b) PC6, (c) PC2, (d) PCI

53 Which one of the following ports of 8255 supports bidirectional data transfer function?

(a) Port-A, (b) Port-B, (c) Port-C

54 Which one of the following registers of the interrupt controller 8259A registers interrupt requests?

(a) ISR, (b) IRR, (c) IMR

- 55. How many address input pins are available in 8259A?(a) 1, (b) 2, (c) 3
- 56 Processing of how many interrupt requests is possible by cascading multiple interrupt controllers?(a) 8, (b) 15, (c) 16, (d) 64
- 57 Which command word allows masking of interrupt requests? (a) ICW-1, (b) ICW-2, (c) ICW-3, (d) OCW-1
- 58. Which command word issues EOI COMMAND?(a) ICW-2, (b) ICW-4, (c) OCW-1, (d) OCW-2

59. The EOI command

(a) Masks the interrupt requests, (b) registers the interrupt requests, (c) resets the active interrupts

- 60. The A3-A0 address lines of 8237 DMA controller are(a) Inputs, (b) outputs, (c) bidirectional
- 61 What is the maximum size of a block that can be transferred in a single DMA transfer with 8237?
 (a) 256 bytes, (b) 1 KB, (c) 64 KB, (d) 1 MB
- 62 How many I/O addresses are required in I/O map for interfacing a 8254 Timer/Counter

IC to 8086?

(a) 2, (b) 4, (c) 8, (d) 16

63 Which one of the following modes of operation of the Timer/Counter IC 8254 generates

interrupt signals at regular interval of time?

(a) mode-0, (b) mode-1, (c) mode-2, (d) mode-3

<u>Unit III</u>

- 64. Which one of the following microprocessors multiplexes address and data bus signals? (a) 8080, (b) 80286, (c) 80386, (d) 80486
- 65. Memory above 1 MB space is referred to as
 - (a) conventional memory, (b) extended memory, (c) expanded memory,
 - (d) virtual memory
- 66. The 80386SX and 80386DX microprocessors have same

(a) internal architecture, (b) width of address bus, (c) width of data bus

67. How many byte-enable pins are in 80386DX microprocessor?

(a) 2, (b) 4, (c) 8

68. How many I/O addresses can the 80386 microprocessor access?

(a) 256, (b) 1 K, (c) 64 K, (d) 1 M

69. Physical and virtual memory spaces that can be addressed by 80386DX microprocessor are,

(a) 16 MB, 1 GB, (b) 4 GB, 64 TB

70. The size of a page in 80386 microprocessor is

(a) 16 bytes, (b) 4KB, (c) 1 MB

71. Which of the following addressing modes are newly introduced in 80386 microprocessor?

(a) based, (b) indexed, (c) based indexed, (d) scaled

72. Which one of the following microprocessors supports LI cache?

(a) 8086, (b) 80286, (c) 80386, (d) 80486

- 73. Which one of the following microprocessors has built in math co-processor?(a) 8086, (b) 80286, (c) 80386, (d) 80486
- 74. The width of data bus of Pentium processors is

(a) 16, bit, (b) 32-bit, (c) 64-bit, (d) 128-bit

- 75. How many data segment registers are there in 80386 microprocessor?(a) 2, (b) 3, (c) 4
- 76. The purpose of IOPL flag in 80386 microprocessor is(a) controls I/O access, (b) controls task switching, (c) controls mode switching
- 77. Where does the interrupt vector table get loaded in 80386 system?
 - (a) first 1 K space, (b) any where in memory,
 - (b) (c) last 1 K space
- 78. The Task Register in 80386 microprocessor is used
 - (a) as another general purpose register, (b) to hold the descriptor of currently executing task,

(c) a control register

- 79. The various descriptor table registers in 80386 microprocessor are(a) accessible to programmers, (b) not accessible to programmers
- 80. Memory and I/O for 80386 systems are set up on how many banks?

(a) 2, (b) 4, (c) 8

81. The maximum size of L2 cache memory supported by 80386 is

(a) 8 KB, (b) 32 KB, (c) 64 KB, (d) 256 KB

82. The operating frequency of 80486DX2 microprocessor is

(a)33 MHz, (b) 50 MHz, (c) 66 MHz, (d) 100 MHz

83. Which one of the following is the new feature in 80486 microprocessor?

(a)L2 cache, (b) 32-bit internal register, (c) 32-bit address bus,

(d) reduced instruction execution time

84. Which one of the following is the new feature in Pentium microprocessor?

(a) LI cache, (b) 32-bit address bus, (c) dual data pipelines

85. How many byte enable signals are in Pentium microprocessor?

(a) 2, (b) 4, (c) 8

86. Memory and I/O for Pentium systems are set up on how many banks?

(a) 8, (b) 4, (c) 2

87. Which one of the following microprocessors is developed exclusively for multimedia applications?

(a) Pentium, (b) Pentium-MMX, (c) Pentium-Pro

88.How many pipelines are there in Pentium-II processor?(a) 2, (b) 3, (c) 4

- 89. Which one of the following functions is integrated into system controller (North Bridge) chip?
 - (a) DRAM controller, (b) interrupt controller, (c) IDE controller, (d) USB controller
- 90. Where do the programs and data with which the microprocessor is currently working reside?
 - (a) floppy disk, (b) hard disk, (c) CD-ROM, (d) main memory
- 91. The size of conventional memory is

(a) 640 KB, (b) 384 KB, (c) 128 KB, (d) 64 KB

- 92. High memory area can be used for
 - (a) application program, (b) operating system, (c) data,
 - (d) device drivers/TSR programs

- 93. Cache memory uses
 - (a) SRAM, (b) DRAM, (c) flash memory, (d) CMOS RAM
- 94. Which area of memory is occupied by ROM BIOS?
 - (a) conventional memory, (b) UMA, (c) expanded memory, (d) high memory
- 95. Which of the following memory techniques is used to improve memory access?(a) pipelining, (b) paged memory, (c) interleaved memory, (d) cache memory
- 96. Shadow memory technique is used to improve memory access with

(a) SRAM, (b) DRAM, (c) ROM devices

- 97. The CMOS RAM holds,
 - (a) system configuration, (b) device driver, (c) BIOS, (d) POST
- 98. When power to a PC is switched ON, the first program to be executed by the system is
 - (a) BOOT Strap Loader, (b) POST, (c) CMOS Setup, (d) BIOS

<u>Unit IV</u>

- 99. Which one of the following storage devices in a PC does not use magnetic principle for storage?
 - (a) floppy disk, (b) hard disk, (c) CD-ROM
- 100. The smallest readable/writable unit on a magnetic storage disk is(a) sector, (b) track, (c) cylinder
- 101. To write logic high on a magnetic medium,

(a) current is passed through the read/write head, (b) current through the read/write head is stopped, (c) the direction of current flow is reversed, (d) the direction of current flow is retained

102 To write logic low on a magnetic medium,

(a) current is passed through the read/write head, (b) current through the read/write head is stopped, (c) the direction of current flow is reversed, (d) the direction of current flow is retained

103. When data are read from magnetic medium, voltage induced on the read/write head irrespective of its polarity is treated as,

(a) logic low, (b) logic high

- 104. Which one of following data encoding formats is more efficient?(a) FM, (b) MFM, (c) RLL 2, 7
- 105. Which one of the following data encoding formats is referred to as double density?(a) FM, (b) MFM, (c) RLL 2, 7
- 106. During the data read or write operation, the floppy disk is spun at the speed of,

(a) 300 rpm, (b) 5,400 rpm, (c) 10,000 rpm

- 107. How many tracks are there on either side of a micro floppy disk?(a) 18, (b) 40, (c) 80, (d) 160
- 108. How many bytes are written into each sector of a micro floppy disk?

(a) 64 bytes, (b) 128 bytes, (c) 256 bytes, (d) 512 bytes

109. The access time of floppy disk drive is,

(a) the time to rotate the disk one full revolution, (b) time to move the head from one sector to another sector, (c) the time to reach the required sector

110. During the command phase or operation of the FDC 8272A, which one of the following actions takes place?

(a) sends commands and parameters to data register, (b) executes commands, (c) saves the status information

- 111. How many different commands are there for 8272A?
 - (a) 9, (b) 15, (c) 32
- 112. The size of the 'Read Data' command of 8272A is

a)1, (b) 2, (c) 9, (d) 15 bytes

- 113. Which of the following actions takes place for the 'Write Data' command to 8272A?(a) writes deleted data address mark in sector, (b) writes into all sectors of a track(c) writes ID fields, (d) writes specified amount of data
- 114. How many status registers are there in FDC 8272A?

(a) 1, (b) 2, (c) 4, (d) 8

115. Which one of the following IRQ lines in a PC-AT system is used by FDC?

(a) IRQ3, (b) IRQ4, (c) IRQ6, (d) IRQ7

116. The function of a data separator in a hard disk drive is

(a) digitizes the analog signal, (b) converts serial data to parallel data, (c) positions the read/write head, (d) controls read/write operation

117. Which one of the following HDD interfaces offers high performance?

(a) ST-506, (b) ESDI, (c) IDE

118. Data are recorded on a CD in

(a) concentric tracks, (b) a single, continuous, spiral track

119. The data encoding format used in CD-ROMs is

(a) FM, (b) MFM, (c) RLL 2, 7, (d) EFM

120. How many bytes are stored in a data block of a CD-ROM?

(a) 24 bytes, (b) 2,048 bytes, (c) 153.6 KB, (d) 533 MB

121. CD divide information in terms of

a) minutes and seconds, (b) data blocks, (c) sector and tracks

- 122. The video display device in lap-top computers use(a) CRT, (b) LED, (c) LCD
- 123. Which one of the following signals controls the intensity of the beam and produces an image on the CRT screen?

(a) video signal, (b) vertical sweep signal, (c) horizontal sweep signal

124. How many input signals are there in monitors using 'Composite Video'?

(a) 1, (b) 2, (c) 3

125. Dot patterns for each line of each character to be displayed on the monitor screen are stored in the,

(a) screen memory, (b) character generator ROM

126. ASCII codes of characters to be displayed on the complete monitor screen are stored in the

(a) Screen Memory (b) Character generator ROM

127. Which one of the following signals is used to bring the beam to the start of a new line?

(a) VIDEO (b) VSYNC (C) HSYNC

128. Which one of the following signals is used to bring the beam to the start of a new Frame ?

(a) VIDEO (b) VSYNC (C) HSYNC

129. The size of the screen memory that stores characters for displaying in 80 Columns and 25 row format would be

(a) 2KB (b) 4KB (c) 8 KB (d) 16KB

130. Which one of the following in a CRT interface generates HSYNC and VSYNC signals?

(a) dot clock (b) shift register (c) character generator (d) CRT Controller

131. The resolution of VGA monitor is

(a) 320 X 200 pixels (b) 640 X 480 pixels (c) 800 X 600 pixels

(d)1024 X 768 pixels

132. In the graphics display the dot patterns of images are provided by

(a) screen memory (d) ROM

- 133. The Size of the screen memory, which stores monochrome graphics image is 320 X200 resolution would be
 - (a) 2KB (b) 4KB (c) 8KB (d) 16KB
- 134. Which one of the following are primary colours ?

(a) red ,green, blue (b) magenta, yellow, orange (c) black and white

- 135. How many bits are used to represent the colour of a pixel of screen providing 256 colours?
 - (a) 4 (b) 8 (c) 16 (d) 24
- 136. Which one of the following display systems requires light for displaying images ?

(a) LED (b) LCD (c) CRT

137. Which of the following devices can switch their resolution ?

(a) LCD (b) CRT

138. Which of the following types of LCD displays offers fast switching of elements and good contrast?

(a) active-matrix LCD (b) passive -matrix LCD

139. Which one of the following types of switches on keyboards has the problem of key bouncing?

(a) capacitive switch (b) mechanical switch (c) hall effect switch

140. Power for operation of keyboard components is supplied by(a) a battery within the keyboard(b) external supply

(c) motherboard through the data cable

141. The number of pins in the PS/2 type keyboard connector is

(a) 4 (b) 5 (c) 6

142. The PC/AT keyboards support which type of data transfer protocol

(a) unidirectional, parallel (b) Unidirectional, serial

- (c) bidirectional, parallel (d) bidirectional, serial
- 143. Make code is the key code that is transferred from the keyboard to the system when the key is

(a) pressed (b) released

- 144. When a key is released, the code that is transferred from the keyboard to the system is referred to as
 - (a) make code (b) break code
- 145. Which one of the following interfaces is not used for connecting the mouse to the system?
 - (a) parallel, (b) serial, (c) PS/2, (d) USB
- 146. The communication on serial interface line between the mouse and the system is(a) unidirectional, (b) bidirectional
- 147. The power required for the operation of internal components of mouse is provided(a) from external source, (b) by battery within the mouse, (c) from the system through an unused interface line
- 148. Serial mouse communicates the mouse actions to the system by a packet of(a) 2 bytes, (b) 3 bytes, (c) 5 bytes
- 149. Mouse Events are Handled by calling the interrupt function

(a) INT 0BH (b) INT 0CH (c) INT 33H

150. Which of the following types of printers generates high quality printouts?

(a) dot-matrix printer, (b) ink-jet printer, (c) laser-jet printer

- 151. Control codes to printers controlling the printing styles start with the ASCII code for the character
 - (a) 'ESC, (b) '#', (c) '*
- 152 The status of the printer is obtained by calling the BIOS interrupt function with the function no.,

(a) 00H, (b) 01H, (c) 02H

153. PostScript language is

(a) device dependent, (b) device independent

<u>Unit V</u>

154. Parallel port at the rear side of the CPU is identified by

(a) 25-pin, D-type female connector, (b) 25-pin, D-type male connector,

- (c) 9- D-type male connector, (d) 4-pin connector
- 155. Maximum number of parallel ports possible in a PC is

(a) 1, (b) 2, (c) 3, (d) 4

156. How many registers are there in a SPP?

(a) 3, (b) 6, (c) 8, (d) 16

157. The SPP occupies which of the following I/O address on the I/O map of a PC?

(a) 02F8H-02FAH, (b) 0378H-037AH, (c) 03F8H-03FAH, (d) 0278H-027AH

158. Which bit of the control register of SPP is used to enable or disable the interrupt requests?

(a) bit-4, (b) bit-5, (c) bit-6, (d) bit-7

- 159. Which bit of the control register is used to control bidirectional operation of SPP?(a) bit-4, (b) bit-5, (c) bit-6, (d) bit-7
- 160. Which of the following bits of control register of SPP is directly presented (without inverting) at an output pin of the connector?

(a) bit-3, (b) bit-2, (c) bit-1, (d) bit-0

- 161. Which one of the following bits of status register of SPP gives the inverted level of the signal?
 - (a) bit-7, (b) bit-6, (c) bit-5, (d) bit-4, (e) bit-3
- 162. How many bits of the control register of SPP are used to output control signals to printers?

(a) 3, (b) 4, (c) 5, (d) 8

163 How many bits of the status register of SPP are used to input the status signals from printers?

(a) 3, (b) 4, (c) 5, (d) 8

164 Which one of the following signals of SPP indicates that the printer is ready to accept next data?

lology

(a) ACK, (b) BUSY, (c) STROBE, (d) SLCT

165. Which one of the following signals of SPP generates interrupts, if enabled?

(a) ACK, (b) BUSY, (c) STROBE, (d) SLCT

166. How many wires are there in a USB cable?

(a) 4, (b) 9, (c) 25, (d) 32

167. The maximum data transfer rate possible with USB is

(a) 1.2 Mb/s, (b) 12 Mb/s, (c) 480 Mb/s

168. Maximum of how many peripherals can be connected through USB?

(a) 2, (b) 4, (c) 64, (d) 127

169. An endpoint refers to

(a) hub, (b) buffer, (c) terminator, (d) peripheral

170. Which one of the following is a USB controller?

(a) 8042, (b) 8051, (c) 16550, (d) 8x931

171 How many IN and OUT end points be there in a USB device?

(a) 1 IN and 1 OUT, (b) 8 IN and 8 OUT, (c) 16 IN and 16 OUT

172. The ID endpoint-0 is assigned to

(a) control end point, (b) data in end point, (c) data out end point

173. Which one of the following end points supports bi-directional flow?

(a) control end point, (b) data end point

174. Scanner is classified under which of the following types of USB devices?

(a) HID, (b) printer devices, (c) imaging devices, (d) mass storage devices

175. A modern PC provides how many USB ports?

(a) 1, (b) 2, (c) 4

176. Which one of the following types of transactions is used to send control-transfer requests to a USB device?

(a) SETUP transaction, (b) IN transaction, (c) OUT transaction

177. Which one of the following types of packets describes the type and direction of transaction, the address of USB device, and the end point number?

(a) token packet, (b) data packet, (c) handshake packet

178. Which one of the following transfer types has the top priority, automatic error detection and high data rate?

(a) isochronous data transfer, (b) interrupt data transfer, (c) bulk data transfer, (d) control data transfer

179. The port addresses on the I/O map of the system occupied by USB are

(a) 03F8H-03FFH, (b) FF80H-FF9FH, (c) FFA0H-FFA7H, (d) FFA8H-FFAFH

180. What is size of onboard RAM in microcontroller CPU core of USB controller 8x931?

(a) 256 bytes, (b) 8 KB, (c) 64 KB

Section B

<u>Unit I</u>

- 1. Explain the General organization of a microcomputer
- 2. Write notes on Flag register of 8086 Microprocessor
- 3. What are Data Transfer Instructions explain
- 4. List out all arithmetic Instruction with correct syntax
- 5. Discuss in detail about Branch control instruction
- 6. Explain about Bit Manipulation Instructions with examples
- 7. Write notes on String Instructions
- 8. Discuss in detail about iteration control instructions
- 9. Write short notes on Interrupt instructions
- 10. Discuss about processor control Instructions
- 11. Explain in detail about Minimum mode signals
- 12. Write short notes on maximum mode signals
- 13. Write notes on Bus Cycle
- 14. Explain about a) SRAM b) DRAM
- 15. Explain about Memory Banks of 8086 Processor

<u>Unit II</u>

- 16. Explain about the pins and signals of 8255A Programmable Peripheral Interface
- 17. Write notes on Handshake Mode operations of 8255A
- 18. Explain about Mode 1 operations of 8255A
- 19. Write notes on Bidirectional Data Transfer Mode Operation of 8255A
- 20. Explain about the operations of Priority Interrupt Controller 8259A
- 21. Write notes on Interrupt Command Words (ICW) of 8259A
- 22. Explain about Operation Command Words (OCW) of 8259A

23. Discuss about the Command Register and Request Register of 8237 DMA Controller

24. Discuss about Mode register and Single Mask register of 8237 DMA Controller

25. Explain about the pins and signals of 8254

<u>Unit III</u>

26. Discuss about the Internal Blocks and Signals of 80386 Microprocessor

- 27. Write short notes on Internal Registers of 80386 Microprocessor
- 28. Explain about the modes of 80386 microprocessor
- 29. Explain about the Instructions of 80386 Microprocessor
- 30. Discuss about the Memory and I/O operations of 80386 microprocessor
- 31. Discuss about the Internal Blocks and signals of 80386 Microprocessor
- 32. Discuss about the features of the Pentium Processor
- 33. Explain about the Internal Blocks and signals of Pentium Processor
- 34. Discuss about the Registers and Instructions of Pentium Processor
- 35. Discuss about the Internal Structure Pentium Pro Processor
- 36. Explain in detail about the features of Pentium II Microprocessor
- 37. List the improvements of Pentium -Pro over Pentium processor
- 38. Describe the improvements of Pentium II over Pentium-Pro Microprocessor
- 39. List out the new flags of Pentium processor
- 40. Explain about burst mode in detail

<u>Unit IV</u>

- 41. Write notes on data encoding formats
- 42. Write notes on the Registers of 8272A FDC
- 43. Discuss in detail about FDC Interface
- 44. Write notes on Drive Construction of Hard Disk Drive
- 45. Write notes on Data Storage Format and Drive Construction of CD-ROM Drive

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- 46. Write notes on BIOS Disk Services
- 47. Discuss about CRT Fundamentals
- 48. Write notes on CRT Interface
- 49. Write notes on Video Adapter
- 50. List out the Advantages and Disadvantages of LCD Monitor
- 51. Explain in detail about LCD operation and its types
- 52. Write notes on keyboard Types
- 53. Explain about Keyboard Interface
- 54. Explain in detail about Mouse Interface Types
- 55. Write notes on Mouse Commands
- 56. Compare the performance of three types of Printers
- 57. Describe about Printer Interface

<u>Unit V</u>

- 58. Discuss about the pins and signals of Standard Parallel Port
- 59. Write notes on IEEE1284 Standard
- 60. What is a Serial Port? Discuss about the pins and signals of Serial port
- 61. List out the features of USB
- 62. Write short notes of USB System
- 63. What is a USB Host ? Rxplain
- 64. Describe about a USB Device
- 65. What is a USB Hub ? Explain
- 66. List out the Transfer Types in a USB Transaction
- 67. What do you mean by Pipe and Packet ? Explain

Section C

<u>Unit I</u>

- 1. Explain about the general organization of a microcomputer
- 2. Explain about the internal architecture of 8086
- 3. Explain in detail about Immediate addressing mode
- 4. Discuss in detail about Register addressing mode
- 5. Explain about memory addressing mode
- 6. Discuss in detail about arithmetic and data transfer instructions
- 7. Explain about Bit manipulation and Interrupt instructions
- 8. Discuss in detail about pins and signals of 8086
- 9. Write notes on memory interfacing and memory Banks
- 10. Discuss about Interrupts in detail
- 11. Discuss about SRAM Interfacing
- 12. Write notes on DRAM Interfacing
- 13. Discuss about steps in 8086 Response to Interrupts
- 14. Write short notes on Interrupt Types
- 15. Explain about basic DMA Operations

<u>Unit II</u>

- 16. Discuss in detail about programmable peripheral Interface 8255A
- 17. Explain the internal block diagram of 8259A
- 18. Explain about the DMA controller in detail
- 19. Explain in detail about Programmable Peripheral Interface 8254
- 20. Explain in detail about UART
- 21. Explain about the modes of operation of 8254 Programmable interval Timer
- 22. Discuss about the pins and signals of UART
- 23. Write notes on the internal Registers of UART
- 24. Explain about FIFO and Line Control registers of UART
- 25. Differentiate NMI and INTR

<u>Unit III</u>

- 26. Explain about 80386 Microprocessor
- 27. Discuss in detail about 80486 Microprocessor
- 28. Explain about Pentium processors in detail
- 29. Explain Pentium-Pro Microprocessor with its inernal structure
- 30. Explain in detail about the Components of the Mother board
- 31. Differentiate all processors and give a comparative study
- 32. What is SIMD? Explain
- 33. Describe the improvements of 486 over 386
- 34. Write notes on Support Chips in the Motherboard
- 35. Describe about the Memory Organization of the Mother Board
- 36. Write notes on the Memory techniques of the Mother Board
- 37. Write notes of Type of Memory

Unit IV

- 38. Explain in detail about the principles of magnetic storage medium
- 39. Discuss about the Floppy Disk Drive 8272 in detail
- 40. Write notes on Hard Disk Drive
- 41. Discuss about the operations of CD -ROM drive
- 42. Discuss about CRT Fundamentals and CRT Interface
- 43. Explain in detail about LCD types and its operation
- 44. Discuss in detail about the organization of a keyboard
- 45. Explain about Mouse Interface Types, Commands and its modes of operation

46. Write notes on Printer and its types

47. Write notes on principles of Magnetic Storage devices

48. Discuss about the pins and signals of 8272 A Floppy Disk Controller

49. Discuss in detail about Graphics Display

50. Explain in detail about Keyboard organization

51. Discuss about Mouse Modes of Operation

Unit V

- 52. Explain in detail about Standard Parallel Port SPP
- 53. Discuss about USB System in detail
- 54. Explain in detail about USB Transfer
- 55. What are the major blocks of Intel 8x931 USB peripheral Controller
- 56. Discuss about the sequence of a USB transaction

57. List out and explain about the registers of Standard Parallel Port

58. Write down the Process of Handshaking in SPP

<i>5</i> 0. W	ine u		1100033	, or man	usnakn	ig in Si i	L		
									8
			KEY	ANSV	VERS				
1.	(a)	2.	(b)	3	(a)	4.	(c) <	5.	(c)
6.	(c)	7.	(b)	8.	(a)	9.	(d)	10.	(b)
11.	(c)	12.	(b)	13	(b)	14.	(c)	15.	(d)
16.	(b)	17.	(a)	18.	(c)	19.	(d)	20.	(c)
21.	(a)	22.	(b)	23.	(c)	24.	(b)	25.	(c)
26.	(d)	27.	(a)	28.	(b) 🔹	29.	(c)	30.	(d)
31.	(b)	32.	(c)	33.	(b)	34.	(a)	35.	(c)
36.	(d)	37.	(b)	38.	(b)	39.	(c)	40.	(d)
41.	(c)	42.	(b)	43.	(a)	44.	(a)	45.	(d)
46.	(a)	47.	(b)	48.	(d)	49.	(a)	50.	(b)
51.	(a)	52.	(d)	53.	(a)	54.	(b)	55.	(a)
56.	(d)	57.	(d)	58.	(d)	59.	(c)	60.	(c)
61.	(c)	62.	(b)	63.	(c)	64.	(a)	65.	(b)
66.	(a)	67.	(b)	68.	(c)	69.	(b)	70.	(b)
71.	(d)	72.	(d)	73.	(d)	74.	(c)	75.	(c)
76.	(a)	77.	(b)	78.	(b)	79.	(b)	80.	(b)
81.	(c)	82.	(c)	83.	(d)	84.	(c)	85.	(c)
86.	(a)	87.	(b)	88.	(c)	89.	(a)	90.	(b)
91.	(d)	92.	(a)	93.	(a)	94.	(b)	95.	(d)
96.	(c)	97.	(a)	98.	(b)	99.	(c)	100.	(a)
101.	(c)	102.	(d)	103.	(b)	104.	(c)	105	(b)
106.	(a)	107.	(c)	108.	(d)	109.	(b)	110.	(a)
111.	(b)	112.	(c)	113.	(d)	114.	(c)	115.	(c)
116.	(a)	117.	(c)	118.	(b)	119.	(d)	120.	(b)
121.	(a)	122.	(c)	123.	(a)	124.	(a)	125.	(b)
126.	(a)	127.	(c)	128	(b)	129.	(a)	130.	(d)
131.	(b)	132.	(a)	133.	(c)	134.	(a)	135.	(b)
136.	(b)	137.	(b)	138.	(a)	139.	(b)	140.	(c)
141.	(c)	142.	(d)	143.	(a)	144.	(b)	145.	(a)
146.	(a)	147.	(c)	148.	(b)	149.	(c)	150.	(c)
151.	(a)	152.	(c)	153.	(b)	154	(a)	155	(c)

KEY ANSWERS

156	(a)	157	(b)	158	(a)	159	(b)	160	(b)
161	(a)	162	(b)	163	(c)	164	(a)	165	(a)
166	(a)	167	(b)	168	(d)	169	(b)	170	(d)
171	(c)	172	(a)	173	(a)	174	(c)	175	(b)
176	(a)	177	(a)	178	(d)	179	(b)	180	(a)

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KONGUNADU ARTS AND SCIENCE COLLEGE

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QUESTION BANK

SUBJECT CODE: 15UIT512 TITLE OF THE PAPER: MOBILE COMPUTING

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Question Bank MOBILE COMPUTING 15UIT512

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	4	Key for Section A	15-18

SECTION-A

1	. ICT is
	a. Information & Communication Technology
	b.Information & Control Technology
	c.Informal & Communication Technology
	d. Interactive & Communication Technology
2	2. First wireless network is
	a. A-Netz b. B-Netz c. C-Netz d. D-Netz
3	A-Netz uses analog technology at
	a. 160 MHz b. 150MHz c. 140 MHzd. 120 MHz
4	. The System that was possible to receive an incoming call is
	a. A-Netz b. B-Netz c. C-Netz d. D-Netz
5	5. The user device that can be either client or server is
	a.Host Mobility b.N/W mobility
	c. Device Mobility d. Bearer mobility
6	5. Presentation and rendering of a content on a particular device is handled by
	a. Middleware b. Gateway c.Network d. Content
7	. Interface between different transport bearers is
	a. Middleware b. Gateway c.Network d. Content
8	8. Adhoc network is a
	a. SANb.MAN c. WAN d. LAN
9	2. CEPT formed a study group called
	a. GSM b. GMS c. GFS d. GFS
1	0. Electronic mail was introduced in
	a. 1971b. 1972 c. 1973d. 1974
1	1. Development of electronic computer started during
	a. II world war b. I world war c.III world war d. IV world war
1	2. Major backbone communication service for internet is.
	a. ASFNET b. NSFNET c. ARPANET d. MSFNET

13. Backbone of the networ	k i	S
----------------------------	-----	---

a. Core b.	Edge c. A	ccess d. Te	erminal	
14. The end poir	nt or the device	e by which the s	service will be accessed is	
a. Core b.	Edge c. A	ccess d. Te	erminal	
15. In Three –tie	er Architecture	the first layer i	S	
a. User Inter	face 1	o. Business-logi	ic	
c. Database	(d. Middleware		
16. The layer de	als with user f	acing ,device ha	andling and rendering is	
a. Data Tier	b. Presentat	ion Tier c. Lo	ogic Tier d.Network Tier	
17. The Final T	ier is		0,	
a. Data Tier	b. Presen	tation Tier c. I	Logic Tier d.Network Tier	
18. The middle	Fier is			
a. Data Tier	b. Presentati	on Tier c. Log	tic Tier d.Network Tier	
19. Middleware	framework that	at loosely conne	ects different application through	
asynchronous ex	change of me	ssage is	Middleware	
a. Message (Driented Midd	leware b.D	Database Middleware	
c.Transaction	n Processing N	Aiddleware	d. Communication Middleware	Э
20. The middlew	vare used to co	onnect one appli	ication to another is	
a. Message (Driented Midd	leware b. C	Communication Middleware	
c.Transaction	n Processing N	Aiddleware	d. Database Middleware	
21. The Calling	party is known	n as.		
a. A-Party	b.B-Party	c. C-Party	d. D-Party	
22. The Called F	arty is known	as.		
a. A-Party	b.B-Party	c. C-Party	d. D-Party	
23. The transmi	ssion rate of T	1 system is.		
a. 1.544Mb/s	b. 1.548M	b/s c. 1.549N	Ib/s d. 1.560Mb/s	
24. The Transmi	ssion rate of E	E1 is .		
a. 2 Mb/s	b. 4 Mb/s	c.6Mb/s	d .8 Mb/s	
25. Number of C	Channels in T1	is.		
a.23	b. 24	c. 25	d. 26	
26. Number of C	Channels in T2	is.		
a. 34	b. 33	c. 32	d. 31	

27. The Signal applied to the line after the calling party has lifted the handset is
a. Dial Tone b. Busy Tone c.RingTone d. Tone
28. DT is
a. Dial Tone b. Busy Tone c.RingTone d. Tone
29. Local exchanges are also known as
a. toll office b. end office c.Exchange d. Trunk office
30. PSTN nodes can be subdivided into categories.
a. 2 b. 4 c. 3 d. 5
31. The multiplexing technique where multiple channels are multiplexed over time is
a.CDMA b. TDMA c.FDMA d. SDMA
32. Connections between time slot in each frame and data streams assigned to a user
remain static in
a. Fixed TDMA b. Dynamic TDMA c. Variant TDMA d. TDMA
33. Packet based TDMA is
a. CDMA b. TDMA c.FDMA d. PRMA
34. Broad band system is
a. CDMA b. TDMA c. FDMA d. SDMA
35. Which is the most common multiplexing procedures?
a. CDMA b. TDMA c.FDMA d. SDMA
36. Popular voice cards used for small office interface is
a.D/41JCT-LS b. D/42JCT-LS c. D/40JCT-LS d. D/44JCT-LS
37. The grammers that are specified outside of the voiceXML document in another
37. The grammers that are specified outside of the voiceXML document in another
37. The grammers that are specified outside of the voiceXML document in another file is
37. The grammers that are specified outside of the voiceXML document in another file isa. Externalb. Inlinec. Internald. Built-in
 37. The grammers that are specified outside of the voiceXML document in another file is a. External b. Inline c. Internal d. Built-in 38. The number of slave devices that can be set to communicate with master is
 37. The grammers that are specified outside of the voiceXML document in another file is a. External b. Inline c. Internal d. Built-in 38. The number of slave devices that can be set to communicate with master is a. 5 b. 6 c. 7 d. 8
 37. The grammers that are specified outside of the voiceXML document in another file is a. External b. Inline c. Internal d. Built-in 38. The number of slave devices that can be set to communicate with master is a. 5 b. 6 c. 7 d. 8 39. The protocol that enables the Bluetooth device to join the piconet is
 37. The grammers that are specified outside of the voiceXML document in another file is a. External b. Inline c. Internal d. Built-in 38. The number of slave devices that can be set to communicate with master is a. 5 b. 6 c. 7 d. 8 39. The protocol that enables the Bluetooth device to join the piconet is a. SDP b. L2CAP c.LMP d. RFCOMM
 37. The grammers that are specified outside of the voiceXML document in another file is a. External b. Inline c. Internal d. Built-in 38. The number of slave devices that can be set to communicate with master is a. 5 b. 6 c. 7 d. 8 39. The protocol that enables the Bluetooth device to join the piconet is a. SDP b. L2CAP c.LMP d. RFCOMM 40. Bit oriented protocol is
 37. The grammers that are specified outside of the voiceXML document in another file is a. External b. Inline c. Internal d. Built-in 38. The number of slave devices that can be set to communicate with master is a. 5 b. 6 c. 7 d. 8 39. The protocol that enables the Bluetooth device to join the piconet is a. SDP b. L2CAP c.LMP d. RFCOMM 40. Bit oriented protocol is a. SDP b. L2CAP c.LMP d. TCSBIN

42.	GSM	uses	a	combination	of
42.	GSM	uses	а	combination	01

a. CDMA&FDMA b.FDMA&TDMA

c. CDMA&TDMA d. FDMA&SDMA

43. MSC is

a. Mobile Switching Center b. Mobile Service Center

c. Mobile Station Center d. Mobile Switch Center

44. CFU is

a. Call Forwarding Unconditional b.Call Forwarding Uniform

c. Call Forwarding Uncertain

d. CallForwardingUniversal

45. Memory of SIM card contains

a. 32 Kbytes b. 32 Kbytes c. 32 Kbytes d. 32 Kbytes

46. In SMS user can enter text message upto

a. 120 Characters b.150 Characters

c.160 Characters d. 140 Charcters

47. The Step that introduces redundancy information into data for error detection and error correction is

a. Channel codingb. Interleavingc. Cipheringd.Burst Formatting48. The step that rearranges a group of bits is

a. Channel coding b. Interleaving c. Ciphering d.Burst Formatting

49. Encrypting block of user data using a Symmetric key is

a. Channel coding b. Interleaving c. Ciphering d.Burst Formatting

50. The step that add some binary information to the ciphered block is .

a. Channel coding b. Interleaving c. Ciphering d.Burst Formatting

51. Tranmission rate in E1 interface is

a. 2Mbits/s b. 3Mbits/s c. 4Mbits/s d. 5Mbits/s

52. MAP is

a. Mobile Application Part b. Mobile Active Part

c. Mobile Advanced Part d. Mobile Activate Part

53. The real telephone number is

a. MSISDN b. TMSI c. LMSI d. MRSN

54.	Temporary identifier assigned by serving VLR is	
	a. TMSI b. MSRN c. LMSI d.ISDN	
55.	Each Cell is identified by	
	a. LA b. LMSI c. CI d. MSRN	
56.	Uplink frequency for GSM uses	
	a. 890-915 MHz b. 860-915 MHz	
	c. 890-950 MHz d. 860-950 MHz	
57.	Downlink frequency for GSM uses	
	a. 935-960 MHz b. 960-985 MHz	
	c. 960-950 MHz d. 950-990 MHz	
58.	For both uplink and down link the bandwidth for GSM system is	
	a. 25MHz b. 28MHz c.30MHz d. 35MHz	
59.	The Authentication algorithm is	
	a. A3b. A4 c.A8 d. A5	
60.	A8 algorithm generates the output of	
	a. 56 bit b. 58 bit c. 60 bit d. 64 bit	
61.	Transmission characteristics required by an application is indicated by	
	a. Reliabilityb. Throughput c. Quality d. MeanTime	
62.	GPRS has the ability to offer data speeds of	
	a. 14.4Kbps to 171.2kbps b. 14.4Kbps to 172.2kbps	
	c. 14.5Kbps to 170.2kbps d. 14.8Kbps to 171.2kbps	
63.	Interface between GPRS backbone network and external packet data network is	
	a. SGSN b. GGSN c. MGSN d. GGMN	
64.	The elements that needs to be enhanced to recognize and send packet data is	
	a. BSS b. HLR c. MS d.MSC	
65.	GTP is	
	a. Gateway Tunneling Protocol b. Gateway Tune Protocol c. Gateway	
Trar	nsfer Protocol d. Gateway Tunnel Protocol	
66.	Routing and QoS related information between BSS and SGSN is delivered by	
	a. LLC b. BSSGP c. SNDCP d. RLC	
67.	The layer that establish a reliable link between MS and BSS is	

	a. RLC b. SNDCP c. LLC d. RLC
68.	The Physical layer between MS and BSS is divided into _sublayers.
	a. 2 b.3 c. 4 d. 5
69.	GPRS/EDGE cellular data network use a mechanism called
	a. APN b. ARN c. ASNd. ADN
70.	DNS is
	a. Domain Name Server b. Domain Name Service c. Domain
Nan	ne State d. Domain Name Station
71.	WAP is
	a. Wireless Access Protocol b. Web Access Protocol
	c. Wireless Application Protocol d. Wireless Access Protocol
72.	MMS is
i	a.Multimedia Messaging Service b. Multimedia Message Service.
	c.Message Multimedia Service d. Messaging Multimedia Service
73.	GPRS provides data rates of
	a. 56-114 Kbps b. 57-114 Kbps c. 56-115 Kbps d. 57-115 Kbps
74.	Logical representation of Document is
	a. File b.Card c.Deck d. Folder
75.	Group of multiple cards are called
	a. File b.Card c.Folder d. Deck
76.	EMS is
	a. Enhanced SMS b. Enlarged SMS
	c. Embeded SMS d. Electronic SMS
77.	Second generation of Messaging is
	a. SMS b. MMS c. EMS d. Chat
78.	The System element that the MMS client is interact with is
	a. MMS Relay b. WAP Gateway c. MMS Server d. Email Server
79.	Standard WAP services needed to implement MMS is provided by
	a. MMS Relay b. WAP Gateway c. MMS Server d. Email Server
80.	SMIL is
	a. Synchronized Multimedia Integration Language
	b.Simple Multimedia Integration Language

	c.Short Mu	ltimedia Inte	egratin Lan	guage	
	d.Single Mu	ltimedia Int	egration La	anguage	
81.	The Spread	spectrum ty	pically use	ed to transmit di	gital digital information is
	a. DS b	o. FH	c. Chrip	d. TimeHopin	g
82.	The method	l that employ	ys a carrier	that swept over	a range of frequencies is .
	a. DS	b. FH	c. Chrip	d. TimeHopin	g
83.	Central free	quency of co	onventional	carrier is altere	d many times in
	a. DS	b. FH	c. Chr	ip d. Tim	eHoping
84.	IS-95 famil	y of standar	ds is knowi	n as	
	a. Cdma	b. (CdmaOne	c. Fdma	d. FdmaOne
85.	LPC is				
	a. Linear Pr	ediction Co	ding	b. Linear Pred	ict Coding
	c. Least Pred	diction Codi	ng	d. Least Predict	Coding
86.	The Mobile	Phone unit	with SIM (Card is called	
	a. MS	b. BS	c. BSS	d. MSC	
87.	One or mor	e BTS is con	ntrolled and	d managed by	
	a. MSC	b. BSC	c. BSS	d. IWF	
88.	Switching c	enter equivation	alent to tele	ephone exchang	e is
	a. MSC	b. BSC	c. BSS	d. IWF	
89.	The MSC s	elected for h	andoff is		
	a. Target M	SC b. Visit	ed MSC c.	. Tandem MSC	d. Visited MSC
90.	MSC Provi	ding service	to MS is .		
	a. Target M	SC b. Visit	ed MSC c.	. Tandem MSC	d. Serving MSC
91.	Collating th	e bill data is	s carried by	7	
	a. HLR	b. VLR	c. IW	VF d. DN	ИН
92.		e MSC is li			
	a. VLR	b. HLR	c. MS	d. AC	
93.		-		nagement of wi	reless network
<u>c</u> (a.VLR	b. HLR	c. MS	d. OS	
94.				er network is en	abled by
	a.VLR	b. HLR	c. MS	d. IWF	

95. Walsh Code for Pilot channel is

a. W_0 b. W_1 c. W_{38} d. W_{64}

- 96. A Mobile communicates with two sectors of the same cell isa.hard handoffb. soft handoffc. harderhandoffd. softer handoff
 - e. hurderhunderi
- 97. The Case of Interfrequency handoff isa.hard handoffb. soft handoff
 - c. harderhandoff d. softer handoff
- 98. The Case of Intercell handoff isa.hard handoffb. soft handoffc. harderhandoffd. softer handoff
- 99. The human voice activity cycle isa.20 percent b. 25 percent c. 30 percent

d. 35 percent

100. In GSM the data bit rate is

a. 9.6 kbits/s b. 9.8 kbits/s c. 9.5 kbits/s d. 9.7 kbits/s

SECTION-B

- 1. What is Mobile computing?
- 2. What is Dialogue Control?
- 3. What are Middleware and Gateways?
- 4. What are Standards? Why they are necessary?
- 5. Write notes on Internet-The ubiquitous network.
- 6. Write notes on the History of Computers.
- 7. Write notes on the History of Internet.
- 8. Explain Three Tier Architecture.
- 9. What is Mobile Computing through Internet?
- 10. How to make the existing applications Mobile-enabled?
- 11. Write notes on the Evolution of Telephony.
- 12. What are Multiple Access Procedures.
- 13. How to develop an IVR application?
- 14. What is TAPI?

- 15. Write notes on Bluetooth Protocol.
- 16. What are the areas of Application for RFID?
- 17. What is Mobile IP?
- 18. Write notes on Bluetooth Application Models.
- 19. How does Mobile IP works?Explain.
- 20. What is Tunneling?
- 21. What is Global System for Mobile communication?
- 22. What is Mobile Station?.
- 23. Discuss about PLMN Interfaces.
- 24. What are the Network Aspects in GSM?
- 25. What are the Strengths of SMS?Explain.
- 26. Discuss briefly about the Architecture of SMS.
- 27. Write notes on the Base Station Subsystem.
- 28. What is Operation and support subsystem?
- 29. What is GSM Frequency Allocation?
- 30. What is SMMO?Explain.
- 31. What is GPRS and packet data network?
- 32. Write notes on GPRS network enhancements.
- 33. Discuss the Attachment and Detachment Procedure in GPRS.

chnology

- 34. What is APN?Explain
- 35. Dicuss about bearers in GPRS.
- 36. What are the Limitations of GPRS?
- 37. Write notes on WAP Application Environment.
- 38. Explain MMS Architecture.
- 39. Explain Wireless Session Protocol
- 40. What are the Transaction flows in MMS?
- 41. What are the different spread spectrum technologies?Explain
- 42. Write a note on Walsh function.
- 43. Explain Is-95 Architecture.
- 44. What is Handoff and Roaming in IS-95?
- 45. Write a note on CDMA Vs GSM.
- 46. What are the advantages of Wireless LAN?

- 47. What is Mobility in Wireless LAN?
- 48. What is Mobile Adhoc and Sensor Networks?
- 49. Write a note on Wifi Versus 3G
- 50. What are the applications of Wireless LAN?

SECTION – C

- 1. Explain the Evolution of Wireless Networks.
- nnologi 2. What are the different context used for Mobile Computing?
- 3. What are Mobile Computing Functions?
- 4. Explain Middleware and Gateways.
- 5. Explain the different types of Networks.
- 6. What are the Application and Services of Mobile Computing?
- 7. How to Develop the Mobile computing Applications?
- 8. What are Standard Bodies?
- 9. Explain the History of Computers and Internet.
- 10. Explain the Three-Tier Architecture.
- 11. Explain Multiple Access Procedures.
- 12. How Mobile Computing through telephone is done?Explain.
- 13. How to develop an IVR application?Explain
- 14. What is Voice XML?Explain how it fits into web environment.
- 15. Explain Bluetooth Protocol Stack.
- 16. How RFID tags are categorized?Explain.
- 17. What is WIMAX?
- 18. Explain the Working of Mobile IP.
- 19. Explain Internet Protocol Version 6(IPV6).
- 20. Explain Java Card.
- 21. Explain the Architecture of GSM.
- 22. Explain GSM Entities.
- 23. Discuss about the Call Routing in GSM.
- 24. What are GSM Addresses and Identifiers? Explain.

- 25. Explain Authentication and Security in GSM.
- 26. Write notes on SMMT and SMMO.
- 27. How GSM frequency Allocation is done?Explain.
- 28. Explain the Network and Switching Subsystem.
- 29. What is SMS?What are its strengths?
- 30. Explain SMS Architecture.
- 31. Explain GPRS Network Architecture.
- 32. Explain Protocol Architecture of GPRS Transmission Plane.

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- 33. What are GPRS Network Operations? Explain.
- 34. What are the Data services in GPRS?
- 35. Write notes on the Applications for GPRS.
- 36. How Billing and Charging in GPRS is carried out?
- 37. What is the use of WML?Explain.
- 38. Explain MMS Architecture and its Transaction flow.
- 39. What is SMIL?Explain.
- 40. What are of Applications of GPRS?Explain.
- 41. Explain Direct Sequence Spread Spectrum.
- 42. Explain IS-95 Channel Structure.
- 43. Explain Wireless Data.
- 44. Discuss about Wireless LAN Architecture.
- 45. How to deploy a Wireless LAN?Explain.
- 46. Write about Security in Wireless LAN.
- 47. Explain 802.11 Architecture.
- 48. Explain Mobility in Wireless LAN.
- 49. Write a note on IEEE 802.11 standards.
- 50. Discuss about the Applications on 3G

ANSWERKEY(SECTION A)

1.a.Information & Communication Technology

2 .a.A-Netz

3.160 MHz

4.b.B-Netz

5.a.Host Mobility

6.a.Middleware

7.b.Gateway

8.a.SAN

9.a.GSM

10.b.1972

11.a.II World war

12.b.NSFNET

13.a.Core

14.c.Access

15.a.User Interface

16.b.Presentation Tier

17.a.Data Tier

18.c.logic Tier

nation 19.a.Message Oriented Middleware

20.b.Communication Middleware.

21.a.A-party

22.b.B-Party

23.a.1.544Mb/s

24.a.2 Mb/s

25.b.24

26.c.32

27.a.DialTone

28.a.Dial Tone

29.b.End office

30.c.3

31.b.TDMA

32.a.Fixed TDMA

33.d.PRMA

34.a.CDMA

35.d.SDMA

36.a.D/41JCT-LS

37.a.External

38.c.7

39.a.SDP

40.d.TCSBIN

41.a.GSM

42.b.FDMA&TDMA

43.a.Mobile Switching Center

rechnology art 44.a.Call Forwarding Unconditional

45.a.32 Kbytes

46.c.160 characters

47. a.Channel coding

48.b.Interleaving

49.c.Ciphering

50.d.Burst formatting

51.a.2Mbits/s

52.a.Mobile Application Part

53.a.MSISDN

54.a.TMSI

55.c.CI

56.a.890-915 MHz

57.a.335-960 MHz

58.a.25MHz

59.a.A3

60.d.64 bit

61.a.Reliability

62. a. 14.4Kbps to 171.2kbps

63. b. GGSN

64. a. BSS

- 65. a. Gateway Tunneling Protocol
- 66. b. BSSGP
- 67. a. RLC
- 68. a.2
- 69. a. APN
- 70. a. Domain Name Server
- 71. c. Wireless Application Protocol
- 72. a.Multimedia Messaging Service
- 73. a. 56-114 Kbps
- 74. c.Deck
- 75. d. Deck
- 76. a. Enhanced SMS
- 77. c. EMS
- 78. a. MMS Relay
- 79. b. WAP Gateway
- 80. a. Synchronized Multimedia Integration Language forma

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- 81. a. DS
- 82. c. Chrip
- 83. b. FH
- 84. b. CdmaOne
- 85. a. Linear Prediction Coding
- 86. a. MS
- 87. b. BSC
- 88. a. MSC
- 89. a. Target MSC
- 90. b. Visited MSC
- 91. d. DMH
- 92. a. VLR
- 93. d. OS
- 94. d. IWF
- 95. a.W₀
- 96. d. softer handoff

- 97. a.hard handoff
- 98. b. soft handoff
- 99. d. 35 percent
- 100. a. 9.6 kbits/s

KASCIINTOIMATION TECHNOLOGY

KONGUNADU ARTS AND SCIENCE COLLEGE (AUTONOMOUS) **COIMBATORE-641029**



forma ASCH **QUESTION BANK**

SUBJECT CODE:15UIT407

TITLE OF THE PAPER: OPERATING SYSTEMS

DEPARTMENT OF INFORMATION TECHNOLOGY

JANUARY 2019

Kongunadu Arts & Science College (Autonomous) Department of Information Technology Question Bank

OPERATING SYSTEMS

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Prepared by, R.Rajalakshmi,M.Sc.,M.Phil., Assistant Professor, Department of Information Technology Kongunadu Arts & Science College, Coimbatore-29.

SECTION-A

1. The System that increases the CPU utilization by organizing jobs so that the CPU
always has one to execute is called
(a) Multiprogrammed system (b) Desktop systems
(c) Time Sharing system (d) Realtime Systems
2. The logical extension of Multiprogramming system is
(a) Multiprogrammed system (b) Desktop systems
(c) Time Sharing system (d) Realtime Systems
3. Tightly coupled systems are called
(a) Multipreessor system (b) Desktop systems
(c) Time Sharing system (d) Realtime Systems
4. The system that satisfy request generated by client system is
(a) server system (b) Distributed systems
(c) Time Sharing system (d) Realtime Systems
5. The Operating system that were neither multiuser nor multitasking is
(a) Batch (b) Multiprogramming (c) Timesharing (d) Desktop
6. The system that gather together multiple CPUs to accomplish computational task is
(a) Distributed (b) Clustered (c) Real-time (d) Time-shared
7. In a process the next instruction to execute is specified by
(a) program counter (b) Process (c) PCB (d) Register
8. The interface between process and the operating system is
(a) Command-Interpreter (b) OS (c) File (d) System calls.
9. Interface between the user and the operating system is
(a) System Calls (b) OS (c) Command Interpreter (d) Process
10. A program code is sometimes known as
(a) text section (b) data section (c) program section (d) program counter.
11. Temporary data is contained in
(a) stack (b) data section (c) program section (d) program counter.
12. Global variables are contained in
(a) stack (b) data section (c) program section (d) program counter.
13. Each process is represented in the operating system by
(a) program counter (b) Process (c) PCB (d) Register
14. PCB is a
(a) Program Control Block (b) Process Control Block
(c) Process Code Block (d) Program Code Block
15. Information associated with a process is contained in
(a) program counter (b) Process (c) PCB (d) Register
16. Collection of processors that do not share memory is called as
(a) Distributed system (b) Clustered System
(c) Real-time System (d) Time-shared System
17. API is
(a) Application Programming Interface (b) Application Program Interface
(c) Application Process Interface (d) Access Programming Interface
18. As processes enter the system they are put into a queue called as
(a) job queue (b) ready queue (c) device queue (d) waiting queue

19.	The process that are residing in memory and are ready and waiting to execute ar kept on
	(a) job queue (b) ready queue (c) device queue (d) waiting queue
20.	The list of Processes waiting for a particular I/O device is called
_0.	(a) job queue (b) ready queue (c) device queue (d) waiting queue
21	The selection Process is carried out by
	(a) program counter (b) Process (c) schedular (d) Register
22	The schedular that selects processed from the pool and loads them into memory i
	called as
	(a) job schedular (b) cpu schedular (c) device schedular (d) queue schedular
23.	Which is the long term schedular ?
	(a) job schedular (b) cpu schedular (c) device schedular (d) queue schedular
24	The schedular selects from among the processes that are ready to execute an
27.	allocates the CPU to one of them is called as
	(a) job schedular (b) cpu schedular (c) device schedular (d) queue schedular
25	The Short term schedular is called as
25.	(a) job schedular (b) cpu schedular (c) device schedular (d) queue schedular
26	Switching the CPU to another process is called
20.	(a) moving (b) context switch (c) migrating (d) Transfering
77	The context of a process is represented in
21.	(a) program counter (b) Process (c) PCB (d) Register
20	
28.	The creating process is called
20	(a) new process (b) parent process (c) old process (d) child process The new process erroted is called
29.	The new process created is called
20	(a) new process (b) parent process (c) old process (d) child process
50.	A new process is created by the system call
21	(a) create (b) new (c) fork (d) create_process
51.	The system call used after fork system call is
22	(a) create (b) wait (c) execlp (d) create_process
32.	The system call used to move to ready queue until the termination of the child is (a) exactly (a) exactly (b)
22	(a) create (b) wait (c) execlp (d) exit
33.	The system call for the termination of the process is
24	(a) create (b) wait (c) execlp (d) exit
54.	A process that cannot affect the other process is called
	(a) Cooperating process (b) independent process
25	(c) dependent process (d) Terminating process
35.	The process that affect the other process is called
	(a) Cooperating process (b) independent process
26	(c) dependent process (d) Terminating process
36.	The process that wants to communicate must explicitly name the recipient is calle
	(a) Direct communication (b) Indirect Communication
25	(c) symmetric communication (d) asymmetric communication
37.	The communication in which messages are sent to and received from mail box is
	(a) Direct communication (b) Indirect Communication
	(c) symmetric communication (d) asymmetric communication

38. If the sending process is blocked then it is called as
(a) blocking send (b) block (c) interrupt (d) terminate
39. The length of the queue is zero then the queue is called as
(a) zero capacity (b) null capacity (c) bounded capacity (d) unbounded capacity
40. If the queue is of finite length then it is called
(a) zero capacity (b) null capacity (c) bounded capacity (d) unbounded capacity
41. If the queue is of finite length then it is called
(a) zero capacity (b) null capacity (c) bounded capacity (d) unbounded capacity
42. The selection of a process is carried out by
(a) job schedular (b) cpu schedular (c) device schedular (d) queue schedular
43. The percent of CPU utilization may range from
(a)1 to 100 (b) 0 to 100 (c) 1 to 50 (d) 0 to 50
44. The percent of CPU utilization in real time system is
(a) 50 (b) 40 (c) 60 (d) 100
45. The percent of CPU utilization in heavily used system is
(a) 50 (b)90 (c) 60 (d) 100
46. The number of processes completed per unit time is called
(a) Seek time (b) Throughput time (c) Turnaround time (d) Latency time
47. The interval from the time of submission of a process and time of completion is
(a) Seek time (b) Throughput (c) Turnaround time (d) Latency time
48. The time from the submission of a request until the first response is produced is
called as
(a) Response time (b) Throughput (c) Turnaround time (d) Latency
49. The simplest scheduling algorithm is
(a) FCFS (b) SJF (c) RR (d) Priority
50. In which scheduling algorithm indefinite blocking occurs ?
(a) FCFS (b) SJF (c) RR (d) Priority
51. Time quantum is defined in the algorithm
(a) FCFS (b) SJF (c) RR (d) Priority
52. The scheduling algorithm that partitions the ready queue into several separate
queues is
(a) FCFS (b) SJF (c) Multilevel queue (d) Multilevel Feedback queue
53. The scheduling algorithm that allow processes to move between queues is
(a) FCFS (b) SJF (c) Multilevel queue (d) Multilevel Feedback queue
54. The state in which the resources that are held by some other waiting process is
termed as
(a) deadlock (b) wait (c) blocked (d) indefinite
55. A state that leads to a deadlock is called
(a) Active (b) Server (c) Safe (d) Unsafe
56. The shape that represents process is
(a) Square (b) Circles (c) Arcs (d) Oval
57. The shape that represents resource is
• •
58. A directed edge Pi->Rj is called
(a) request edge (b) resource edge (c) process edge (d) assignment edge

59. A directed edge Rj->Pi is called
(a) request edge (b) resource edge (c) process edge (d) assignment edge
60. Set of methods for ensuring that one of the necessary conditions cannot hold is
(a) Deadlock Avoidance (b) Deadlock prevention
(c)Deadlock detection (d) Deadlock characterization
61. The collection of processes on the disk that is waiting to be brought into memory for execution forms
(a) job queue (b) ready queue (c) input queue (d) waiting queue
62. The absolute code can be generated during
(a) compile time (b) load time (c) execution time (d) process time
63. The relocatable code is generated during
(a) compile time (b) load time (c) execution time (d) process time
64. Binding of the process is delayed during
(a) compile time (b) load time (c) execution time (d) process time
65. What is used if a process is larger than the amount of memory allocated to it
(a) Dynamic loading (b) Dynamic linking (c) Overlays (d) shared libraries
66. The address generated by the CPU is called
(a) memory address (b) CPU address (c) logical address (d) physical address
67. The address generated by the memory is called
(a) memory address (b) CPU address (c) logical address (d) physical address
68. The runtime mapping from virtual to physical address is done by
(a) memory (b) CPU (c) libraries (d) MMU
69. In storage allocation allocating the first hole is referred to as (a) first-fit (b) worst-fit (c) best-fit (d)whole-fit
70. In storage allocation allocating the smallest hole is referred to as
(a) first-fit (b) worst-fit (c) best-fit (d) whole-fit
71. In storage allocation allocating the largest hole is referred to as
(a) first-fit (b) worst-fit (c) best-fit (d) whole-fit
72. The memory management scheme that permits the physical address of a process to
be noncontiguous is called
(a) segmentation (b) paging (c) fragmentation (d)compaction
73. The problem of external fragmentation is called
(a) segmentation (b) paging (c) fragmentation (d) compaction
74. In shared pages non-self modifying code is
(a) enterent code (b) re-enterent code (c) reusable code (d) non-reusable code
75. User view of memory is supported by (a) segmentation (b) paging (c) fragmentation (d) compaction
76. The unique tag that identifies the file within the file system is
(a) Identifier (b) name (c) Type (d) location
77. In file the simplest access method is
(a) sequential access (b) Random access (c) Direct access (d) Indexed access
78. Disks are split into one or more
(a) partitions (b) drives (c) segments (d) holes

17.	Which block contain information needed by the system to boot an operating system?
~ ~	(a) boot control block (b) partition control block (c) Shell (d) kernal.
80.	System calls are used to
0.1	(a) open the file (b) read the file (c) write into the file (d) all of the above
81.	File type can be represented by
\mathbf{r}	(a) file name (b) file extension (c) file identifier (d) none Which file is a sequence of butes organized into blocks understandable by the
82.	Which file is a sequence of bytes organized into blocks understandable by the system's linker?
	(a) object file (b) source file (c) executable file (d) text file
83	The set of tracks that are at one arm position make up a
05.	(a) magnetic disks (b) electrical disks (c) assemblies (d) cylinders
34.	The time taken to move the disk arm to the desired cylinder is called the
	(a) positioning time (b) random access time (c) seek time (d) rotational latency
35.	The time taken for the desired sector to rotate to the disk head is called
	(a) positioning time (b) random access time (c) seek time (d) rotational latency
36.	When the head damages the magnetic surface, then it is called as
	(a) disk crash (b) head crash (c) magnetic damage (d) all of the mentioned
37.	How a floppy disk is designed to rotate when compared to a hard disk drive
20	(a) faster (b) slower (c) at the same speed (d) none of the mentioned
88.	Free space list is implemented as
20	(a) vector (b) bit-vector (c) list (d) linked list
39.	The simplest form of disk scheduling is(a) SSTF(b) FCFS(c) SCAN(d) C-SCAN
0	The scheduling algorithm designed to provide a more uniform wait time is
	(a) SSTF (b) FCFS (c) SCAN (d) C-SCAN
91.	The first linux kernel version is
	(a) Version 0.1 (b) Version 0.01 (c) Version 1 (d) Version 1.0
92.	Kernals with odd minor-version numbers are called
	(a) Odd kernal (b) Development kernal (c) Production Kernal (d) Basic kernal
93.	Kernals with even numbered minor-version numbers are called
	(a) Odd kernal (b) Development kernal (c) Production Kernal (d) Basic kernal
94.	Important abstractions of the operating system is maintained by
5	(a) Kernal (b) libraries (c) utilities (d) shell
95.	Standard set of functions are defined by
06	(a) Kernal (b) System libraries (c) utilities (d) shell The Programs that perform individual specialized management task is
90.	The Programs that perform individual specialized management task is (a) Kernal (b) System libraries (c) System utilities (d) shell
97	The Privilaged mode in linux is called
	(a) Kernal mode (b) System mode (c) utilities mode (d) shell mode
98.	Which allows the module to be loaded into memory?
	(a) module management (b) driver registration
	(c) utilities management (d) shell management
99.	What allows to tell the rest of the kernel that a new driver becomes available
	(a) module management (b) driver registration

100. What allows different hardware drivers to reserve hardware resources to protect those resources from the accidental use by another driver.

(a) module management (b) conflict-resolution mechanism

(c) utilities management (d) shell management

SECTION-B

rechnology

1. Define Operating system.

2. What are the goals of an Operating systems?

3. What is a multiprogrammed system?.

4. Write notes on Timesharing systems.

5. Write notes on Client-Server systems.

6. What is a peer-to-peer system?

7. What are Clustered Systems?

8. What is a Command Interpreter System?

9. What are Real-Time Systems?

10.Write notes on File management.

11. What is a Process?

12.Discuss about Process States.

13.Write notes on Scheduling Queues.

14.What are Schedulars?Explain.

15. How to create and terminate a Process? Explain.

16. How Direct and Indirect Communication takes place?

17.Write notes on Scheduling Criteria.

18.Write notes on Round Robin Scheduling.

19. What is Priority scheduling? Explain.

20. What is Multilevel Queue scheduling?

21.What is a Deadlock?How it happens?

22. What are the necessary conditions for a deadlock?

23.Write a note on Resource-Allocation Graph.

24. Write the Banker's Algorithm for Deadlock Avoidance.

25.What is Address Binding?

26.Discuss about Logical-Versus Physical Address space.

27.What is Swapping?

28.Discuss about Hierarchical Paging.

29.What are Shared Pages?

30.What is Fragmentation?

31.What is Virtual memory?Explain.

32. What are the basic concepts of Demand paging?

33.What are the basic scheme in page replacement?Explain.

34. What is FIFO page replacement? Explain.

35.Write about Second-chance algorithm.

36.Write about FCFS and SSTF scheduling.

37. Give description about File-system Implementation.

38.Explain Contiguous Allocation in File Systems.

39. How Indexed Allocation is done in File Systems?

40.What is Linked Allocation?Explain.

41.What is Unix BSD?Explain.

42.Write about the history of Unix.

43. What are the design principles of Unix system?

44. What is User Interface in Unix System?

45.What is Programmer Interface in Unix System?

46.What are the components of a Linux System?

47.Write about the Driver registration in Kernal module.

48.Write about scheduling in Linux Systems.

49.Explain Memory management in Linux system.

Lechuology 50. How Interprocess Communication is done in Linux?

SECTION-C

1. What is an Operating System? How it is viewed?

2. What are Mainframe Systems?

3. Explain Desktop Systems.

4. What is a Multiprocessor System?

5. What are Distributed Systems?

6. What is Process Management? Explain.

7. Explain Main-Memory Management.

8. What is a Command Interpreter System?

9. What are Operating System Services?

10.Explain System Calls.

11.What is Process Control Block?Explain.

12. What are Operations on Processes?

13. What is a Cooperating Processes?

14.Explain Interprocess Communication.

15.What is CPU Scheduling?Explain.

16.Explain FCFS and SJF scheduling.

17.Explain RoundRobin and Priority Scheduling.

18.Explain Multilevel Feedback Queue Scheduling.

19. What is Multiple-Processor scheduling?

20.Explain Real-Time Scheduling.

21. What is aDeadlock? What are the Characterization of deadlock?

22.Explain Resource Allocation Graph.

23. How to prevent deadlock? Explain.

24. What are the methods for handling deadlock? Explain.

25. How deadlock is avoided? Explain.

26. How to detect deadlock? Explain.

27.What are the methods to recover from the deadlock?Explain.

28.What are Overlays?Explain.

29. Explain Contiguous Memory Allocation.

30.What is Paging?Explain.

31. What are the basic concepts of Demand Paging? Explain.

32.What is Page Replacement?Explain.

33. Explain FIFO Page Replacement and LRU Page Replacement.

34.Explain LRU Approximation Page Replacement.

35.Explain the various Disk Scheduling Algorithms.

36.Explain Thrashing.

37.Explain the Concept of files.

38.Explain the Directory structure.

39.Explain the Allocation methods in Files.

40.What is Free space management?Explain.

41.Explain the Linux Kernel.

42. What are the design principles of Linux? Explain.

43.What are Kernal Modules in Linux System?Explain.

44.Explain the Fork/Exec Process Model in Linux.

45.Explain Memory management in Linux.

46.Explain Interprocess communication in Linux system.

47.What are the design principles of Unix?Explain.

48.Write about the Programmer Interface in Unix.

49.What is User Interface in Unix?Explain.

50.Explain the Interprocess Communication in Unix System.

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KEY ANSWERS

1. a) Multiprogrammed system 2. c) Time Sharing system 3. a) Multipreessor system 4. a) server system 5. d) Desktop 6. b) Clustered 7. (a) program counter 8. d) System calls. 9. c) Command Interpreter 10. a) text section 11. a) stack 12. b) data section 13.(c) PCB 14.(b) Process Control Block 15. (c) PCB 16. a) Distributed system 17. a) Application Programming Interface 18.(a) job queue 19. (b) ready queue 5.Inform? 20.(c) device queue 21.(c) schedular 22 .(a) job schedular 23.(a) job schedular 24.(b) cpu schedular 25.(b) cpu schedular 26.(b) context switch 27.(c) PCB 28.(b) parent process 29.(d) child process 30.(c) fork 31.(c) execlp 32.(b) wait 33.(d) exit 34.(b) independent process 35.(a) Cooperating process 36.(a) Direct communication 37.(b) Indirect Communication 38.(a) blocking send 39. (a) zero capacity 40.(c) bounded capacity 41.(d) unbounded capacity

42.(b) cpu schedular 43.(b) 0 to 100 44.(b) 40 45.(b)90 46.(b) Throughput 47.(c) Turnaround 48.(a) Response 49.(a) FCFS 50.(d) Priority 51.(c) RR 52.(c) Multilevel queue 53.(d) Multilevel Feedback queue. 54.(a) deadlock 55.(d) Unsafe 56.(b) Circles 57.(a) Square 58.(a) request edge 59.(d) assignment edge 60.(b) Deadlock prevention 61.(c) input queue 62.(a) compile time 63.(b) load time 64.(c) execution time 65.(c) Overlays 66.(c) logical address 67.(d) physical address 68.(d) MMU 69.(a) first-fit 70.(c) best-fit 71.(b) worst-fit 72.(b) paging 73.(d) compaction 74.(b) reenterent code 75.(a) segmentation 76.(a) Identifier 77.(a) sequential access 78.(a) partitions 79.(a) boot control block 80.(d) all of the above 81.(c) file identifier 82.(a) object file

83.(d) cylinders 84.(c) seek time 85.(d) rotational latency. 86.(a) disk crash 87. (c) at the same speed 88. (b) bit-vector 89.(b) FCFS 90.(d) C-SCAN 91.(b) Version 0.01 92.(b) Development kernal who contraction to chinology 93.(c) Production Kernal 94.(a) Kernal 95.(b) System libraries 96.(c) System utilities 97.(a) Kernal mode 98. a) module management 99.(b) driver registration 100.(b) conflict-resolution mechanism

KONGUNADU ARTS AND SCIENCE COLLEGE (AUTONOMOUS) **COIMBATORE - 641 029**



QUESTION BANK

SUBJECT CODE: 15UIT408 TITLE OF THE PAPER: PRINCIPLES OF DATA COMMUNICATIONS AND **NETWORK**

DEPARTMENT OF INFORMATION TECHNOLOGY **WASCHNIK**

JANUARY 2019

Prepared by N. PAVIYASRE M.Sc., M.Phil., **Department of INFORMATION TECHNOLOGY** Kongunadu Arts & Science College, Coimbatore - 29.

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Kongunadu Arts & Science College (Autonomous) Department of INFORMATION TECHNOLOGY Question Bank PRINCIPLES OF DATA COMMUNICATIONS AND NETWORK

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	3	Section C	10
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SECTION - A

1. Which communication involves the exchange of data between two computers?
a. Data b. Modem c. Protocol d. Transmission Medium
2. What type of data reach only the intended recipient and not someone else?
a. Correct b. Accurate c. Timely d. Signals
3. Which type of data received in the same form as the one it was sent?
a. Correct b. Accurate c. Timely d. Signals
4. By what finite amount of time the data must travel from sender to receiver?
a. Correct b. Accurate c. Timely d. Signals
5. Which defines the structure of data?
a. Syntax b. Semantics c. Timing d. Protocol
6. Which refers an agreement between sender and the receiver about the data
transmission rates and duration?
a. Syntax b. Semantics c. Timing d. Protocol
7. Which defines the interpretation of the data that is sent?
a. Syntax b. Semantics c. Timing d. Protocol
8. How many bits are used to represent one symbol in ASCII?
a. 4 b. 5 c. 6 d. 7
9. How many bit code is used by EBCDIC?
a. 5 b. 6 c. 7 d. 8
10. By which hardware equipment is used to regenerate the signals?
a. Amplifier b. Frequency c. Bandwidth d. Repeater
11. Which type of coding scheme is used to convert digital signal into analog signal?
a. Modem b. Modulator c. Demodulator d. Digital line
12. By which mode of communication is unidirectional?
a. Simplex b. Half duplex c. Full duplex d. Parallel
13. In which mode, both devices can transmit data not at the same time?
a. Simplex b. Half duplex c. Full duplex d. Serial
14. By which mode of communication, both devices can transmit data at the same time?
a. Simplex b. Half duplex c. Full duplex d. Parallel
15. Which divides the physical line into logical segments?
a. Multiplexing b. Multiplexer c. Demultiplexer d. Frequency
16. What type of signals varying frequencies at different speeds along the medium?
a. Delay distortion b. Attenuation c. Noise d. Bandwidth
17. What type of acknowledgement sent by the receiver if everything was ok?
a. ACK b. NAK c. Positive d. Negative
18. Which signal is used to travel electromagnetic signal through any medium?
a. Bandwidth b. Attenuation c. Amplifier d. Noise
19. Which technique sends one frame of data and waits for an acknowledgement?
a. Stop and Wait b. Go-back-n c. Sliding window d. ACK
20. Which block of bits are append to the data block in error detection?
a. VRC b. LRC c. CRC d. Recovery

21. The physical infrastructure components that carry data from one computer to another.
a. Modem b. Repeater c. Multiplexing d. Transmission media
22. Which media is typically based on some physical cable? a. Guided b. Unguided c. Transmission media d. UTP
23. Which structure uses light instead of electric signals?
a. Optical fiber b. Light source c. Coaxial cable d. STP
24. The multiplexing which allows access to the full bandwidth of the frequency spectrum.
a. FDMA b. TDMA c. CDMA d. PCM
25. By which communication signals that do not travel along the surface of the earth?
a. Microwave b. Terrestrial c. Satellite d. Light source
26. Which communication uses transport electromagnetic waves using physical conductor?
a. Guided b. Unguided c. Frequency d. Bandwidth
27. A fixed frequency channel which is allocated to a transmission pair.
a. FDMA b. TDMA c. CDMA d. PCM
28. Which coding transmission is unique that allows the receiver on the same frequency?
a. FDMA b. TDMA c. CDMA d. PCM
29. Which modulation communication between the mobile phone and the cell office?
a. Frequency b. Bandwidth c. MTSO d. TCO
30. What is the use of analog transmission?
a. Cellular telephony b. Cell Office c. Mobile phones d. TCO
31. What does the problem which helps to eliminate in STP?a. Noiseb. Cross talkc. Errord. Voltage
32. This type of topology which has a hierarchy of hubs.
a. Mesh b. Star c. Tree d. Ring
33. Which topology refers to the logical arrangement not the physical appearance?
a. Bus b. Ring c. Hybrid d. Ring
34. Which network is made up of a number of interlinked nodes?
a. Switches b. Hybrid c. Circuit d. Packet
35. This type of switching was mainly devised for telephone communication.
a. Circuit b. Packet c. Message d. Switches
36. Which device connects two or more computer networks together?
a. Router b. Routing c. Packet d. Circuit
37. Which layer is responsible for error control?
a. Physical b. Data link c. Network d. Transport
38. Which layer sending raw bits between the source and the destination?
a. Physical b. Data link c. Network d. Transport
39. Which layer functions establish and maintain the interaction between two hosts?
a. Session b. Presentation c. network d. Physical
40. Which layer performs data encryption and decryption for security?
a. Translation b. Encryption c. Compression d. Synchronization
41. Which type of network is privately owned by a single campus?
a. LANb. MANc. WANd. MAC42. What type of network is designed to cover an entire city?
a. LAN b. MAN c. WAN d. CRC
43. Which device is used to establish the connection between a computer and the Ethernet?
a. Transceiver b. NIC c. DMA d. CRC
44. Which layer uses the connection between hosts?
a. Ethernet b. Frame c. Preamble d. CSMA
45. Which type of protocol is a dual bus configuration?
a. DQDB b. SMDS c. CSMA/CD d. MAN

46. Which network acts as a high-speed technolo		
a. SMDS b. DQDB	c. CSMA/CD	d. LAN
47. Which mechanism is used for packet transmit		
a. Stop & Wait b. Store & Forward		d. Switching
48. What is the process of using routing tables fo		
a. Router b. Hop	c. Next-Hop	d. Routing
49. This allows what type of users to transmit the		
a. Frame relay b. ALOHA	c. CSMA/CD	d. X.25
50. Which aims to integrate voice and non-voice	services together in digi	
a. QAM b. ISDN	c. PCM	d. Central Office
51. What is the fundamental concept of ISDN?		
a. CRM b. POTS	c. Business bit pipe	d. Digital bit pipe
52. Which channels simplify higher bandwidth to	o the users?	
a. Bearer b. Data	c. Hybrid	d. Message
53. Which type of protocol is used to describe the	e generic framework?	
a. OSI b. ISDN	c. NT	d. TE
54. Which contains the next packet number that e	expects to receive the vir	tual circuit?
a. RR b. RNR	c. REJ	d. DCE
55. This supports the PVC as well as SVC.	0	
a. DLCI b. ISDN	c. X.25	d. Frame relay
56. Which field contains the actual data to be sen	nt?	
a. Data b. Information	c. Frame	d. Congestion
57. Which bit indicates the frame relay?	20	
a. DLCI b. DE	c. EA	d. FECN
58. What type of bits are used to deal with netwo	ork congestion problems	?
a. DLCI b. FECN	c. EA	d. BECNC
59. Which protocol is used to carry voice traffic?		
a. ISDN b. X.25	c. Frame relay	d. PCM
60. The technique which is used to reduce the dat	ta size.	
a. X.25 b. ISDN	c. PCM	d. CIR
61. Which of the following is used for digitizing	analog voice signals?	
a. ATM b. PCM	c. PVC	d. SVC
62. The switch that routes packets based only on	the VPI values.	
a. Switching b. VPC	c. VP	d. VCI
63. The switch that routes packets based on VPI	as well as VCI values.	
a. Switching b. VPC	c. VP	d. VCI
64. Which facilitates an interaction between the e	existing networks and A	ГМ?
a. ATM b. ITU-T	c. AAL	d. CS
65. How many bytes can accepts AAL segments	from the AAL layers?	
a. 46 b. 47	c. 48	d. 49
66. This provides services for flow control and en	rror control.	
a. AAL1 b. AAL3/4	c. AAL5	d. ATM
67. This defines parameters related to the perform	nance of an ATM netwo	ork.
a. CBR b. VBR	c. QOS	d. AAL
68. This type of protocol is the backbone of the I	-	
a. X.25 b. FTP	c. TCP/IP	d. SMTP
69. Which device used to regenerates a signal?		
a. Router b. Internet	c. Repeater	d. Gateway
70. What type of topology is a worldwide compu	-	···· _ ·······························
a. Bus b. Ring	c. Internet	d. Hybrid
···· ·································		,

71. The communication between the sender an	nd the receiver that is reliab c. FTP	
a. TCP b. UDP		d. SMTP
72. The packets which are flow from source to a. Direct b. Indirect	c. Multicast	d. Network
73. The packets which are flow from source t a. Direct b. Indirect	c. Multicast	d. Network
74. The IP address used to obtain host based of		u. Inclwolk
a. RARP b. ICMP	c. ARP	d. NIC
75. Which protocol serves as an error reportin		u. MC
a. RARP b. ICMP	c. ARP	d. NIC
76. What is the process of recreating an IP dat		
a. MTU b. Reassembly	c. Fragmentation	d. SMTP
77. Which enables the detection and reporting	6	
a. ICMP b. RARP	c. IP	d. WAN
78. The datagram that can travel through a num		
a. IP b. TCP	c. SMTP	d. FTP
79. Which protocol serves as an error correcting		
a. RARP b. ICMP	c. ARP	d. NIC
80. What is the abbreviation of FTP?		
	o. First Transfer Protocol	
	l. First Transport Protocol	
81. Which protocol will automatically checks		
a. UDP b. TCP	c. IP	d. FTP
82. Which layer will represent the TCP/IP?		
a. Physical b. Data link	c. Network	d. Transport
83. How many features in TCP?	0	Ĩ
a. 2 b. 3	c. 4	d. 5
84. Which control is opposite to the loss contr	ol?	
a. Error b. Sequence	c. Duplication	d. Data
85. What type of communication is point $-$ to	– point in TCP?	
a. Simplex b. Half-duplex	c. Full-duplex	d. LAN
86. Which is used to identify the IP address ar	nd the port number?	
a. Ports b. Sockets	c. Active	d. Passive
87. How many bytes signify the port number of		
a. 2 b. 3	c. 4	d. 5
88. How many bytes signify the port number of		
a. 2 b. 3	c. 4	d. 5
89. How many bits will specifies the TCP hea		
a. 2 b. 3	c. 4	d. 6
90. Which protocol is simpler but less reliable		1 77 67
a. IP b. UDP	c. FTP	d. X.25
91. Which name refers to the group of comput		
a. SMTP b. Domain	c. Server	d. TCP/IP
92. What is the abbreviation of DNS?		
	b. Domain Number System	
	l. Data Name System	d the comment
93. Which connection is made between control		
a. TP control b. TP data trans		d. FTP
94. Which connection is made between data trans	-	
a. TP control b. TP data trans	fer c. TCP/IP	d. FTP

95. What command is used	l for data transfer con	nection?	
a. Passive open	b. Active open	c. Port number	d. Data transfer
96. Which command is use	ed to log out of the sys	stem?	
a. ABOR	b. QUIT	c. DELE	d. LIST
97. Which command is use	ed to abort the previou	is command?	
a. ABOR	b. QUIT	c. DELE	d. LIST
98. Which command is use	ed to delete a file?		
a. RETR	b. QUIT	c. DELE	d. LIST
99. Which command is use	ed to view the director	ry structure?	
a. ABOR	b. QUIT	c. DELE	d. LIST
100. Which command is us	sed to upload a file from	om the client to the serv	ver?
a. STOR	b. QUIT	c. DELE	d. LIST

SECTION - B

- 1. What is Communication? Explain about the concept of data communications.
- 2. Explain about the Signal Propagation.
- 3. Discuss about the concept of representing different symbols.
- 4. Write short notes on Digital Signal, Digital Transmission.
- 5. Explain about the Parallel and Serial Communication.
- 6. Explain about the concept of Error Classification.
- 7. Discuss about the Cyclic Redundancy Check with its neat diagram.
- 8. Explain about the Real-life Data Communications.
- 9. Discuss about the concept of Protocols.
- 10. Explain about the Analog and Digital Signals.
- 11. Explain about the concept of Twisted Pair Cable in Guided Media.
- 12. Discuss about the Microwave Communication in Unguided Media.
- 13. What is Network Topology? Explain about it.
- 14. Discuss about the concept of Message Switching.
- 15. Explain about the Router and Routing.
- 16. Discuss about the factors affecting Routing Algorithms.
- 17. Write short notes on Approaches to Routing.
- 18. What is Routing? Explain about the Link state packet in Link state Routing.
- 19. Write short notes on Transport Layer in OSI Layer functions.
- 20. Explain about the concept of Physical Layer.
- 21. Discuss about the Local Area Networks.
- 22. Explain about the concept of Ethernet Properties.
- 23. Discuss about the Token Ring Frame.

- 24. Write short notes on Switched Multimegabit Data Services.
- 25. Discuss about the Wide Area network (WAN) Transmission Mechanism.
- 26. Explain about the concept of ISDN Interfaces.
- 27. Discuss about the concept of Characteristics of X.25 protocol.
- 28. Explain the concept of Frame Relay Frame Format.
- 29. Discuss about the Frame Relay Assembler/ Dissembler (FRAD).
- 30. Write short notes on X.25 Operation.
- 31. Explain about the concept of Overview of ATM.
- 32. Write about the ATM Cells.
- 33. What is switching? Discuss about it.
- 34. Discuss about Miscellaneous Topics in ATM.
- 35. Why Internetworking? Explain its problems.
- 36. Explain about the concept of Repeaters.
- 37. Explain about a brief history of the Internet.
- 38. Explain the concept of TCP/IP Basis.
- 39. Discuss about the concept of Reverse Address Resolution Protocol.
- 40. Explain about the Maximum Transmission unit in Datagram Fragmentation and Reassembly.

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- 41. Write any 5 features of TCP.
- 42. Discuss about the relationship between TCP and IP.
- 43. Discuss about the concept of TCP Connections.
- 44. What makes TCP Reliable?
- 45. What is UDP? Explain about UDP Packet.
- 46. Explain about the concept of Domain Name System.
- 47. Discuss about the concept of DNS Name Space.
- 48. What is Email? Explain it.
- 49. Discuss about the concept of FTP Connections.
- 50. Explain about the concept of Data Transfer connection in C/s communication using FTP.

SECTION - C

- 1. What is an Error? Explain in detail about the concept of Minimizing Errors.
- Discuss in detail about the concept of Analog Signal, Analog Transmission and Digital Signal, Digital Transmission.
- 3. Discuss in detail about the concept of Digital Signal, Analog Transmission.
- What is an Analog Signal? Explain in detail about the concept of Analog Signal, Digital Transmission.
- Discuss in detail about the concept of Asynchronous, Synchronous and Isochronous Communication.
- 6. Explain in detail about the concept of Simplex, Half- Duplex and Full- Duplex Communication.
- 7. What is Multiplexing? Discuss in detail about the Time Division Multiplexing.
- 8. Illustrate the concept of Error Detection and Correction.
- 9. Discuss in detail about the concept of Recovery from Errors.
- 10. Summarize the concept of Types of Multiplexing.
- 11. What is Topology? Explain about the Types of Network Topology.
- 12. What is switching? Explain in detail about the Packet Switching in switching basics.
- 13. Discuss in detail about the Distance Vector Routing in Routing Algorithms.
- 14. Elaborate the concept of Link state routing in Routing Algorithms.
- 15. What is Router and Routing? Explain about the Factors affecting Routing Algorithms and Approaches to Routing.
- 16. Explain in detail about the Protocols in Computer Communication.
- 17. Discuss in detail about the concept of the OSI Model.
- 18. What is an OSI Layer functions? Explain about the Data link and Network Layer.
- 19. Discuss in detail about the concept of Transport and Session Layer in OSI Model.
- 20. Explain any 3 layers in OSI Layer Functions.
- 21. What is an Ethernet? Explain its properties, Addresses and Frame in Ethernet.
- 22. Explain in detail about the Token Ring.
- 23. Discuss in detail about the concept of Fiber Distributed Data Interface (FDDI).
- 24. Discuss in detail about the concept of Distributed Queue Dual Bus (DQDB).
- 25. Elaborate the concept of Packet forwarding in WAN.
- 26. Explain in detail about the concept of Background of ISDN.
- 27. Discuss in detail about the concept of the ISDN Architecture.

- 28. Illustrate the concept of ISDN Protocol Architecture.
- 29. Discuss in detail about the concept of Packet Format in X.25 protocol.
- 30. Explain in detail about the concept of the need for Frame Relay.
- 31. Discuss about the concept of the ATM Layers.
- 32. Explain in detail about the concept of Bridges.
- 33. Discuss about the concept of the Routers.
- 34. Discuss about the concept of Internal Architecture of an ISP.
- 35. Why IP Addresses? Explain about it.
- 36. Explain about the concept of TCP/IP Example.
- 37. Discuss about the concept of IP Addresses.
- 38. Illustrate the concept of the Address Resolution Protocol.
- 39. Discuss in detail about the concept of the Internet Control Message Protocol.
- 40. Explain in detail about the concept of Fragmentation in Datagram fragmentation and Reassembly.
- 41. Explain about the concept of the Features of TCP.
- 42. Discuss about the concept of the Ports and Sockets.
- 43. Discuss in detail about the concept of TCP Packet Format.
- 44. Illustrate about the DNS.
- 45. Explain in detail about the Electronic mail.
- 46. Explain in detail about the concept of FTP.
- 47. What is protocol? Differences between UDP and TCP.
- 48. What is DNS? Explain in detail about DNS Server.
- 49. What is Email? Explain Email Transfer Protocols.
- 50. Explain in detail about the Client-server communication using FTP.

	45. a	90. b
1. a	46. a	91. b
2. a	47. b	92. a
3. b	48. d	93. a
4. c	49. b	94. b
5. a		95. a
6. b	51. d	96. b
7. c		97. a
8. d		98. c
9. d		99. d
10. d		100. a
11. b		
12. a		4
13. b	58. b	
14. c	59. c	0,
15. a	60. c	0-
16. a	61. b	
17. a	62. c	
18. d	63. b	
19. a	64. c	
20. b	65. c	
21. d		
22. a 23. a		
23. a		
25. a		
26. b		
27. a		
28. b		
29. a		
30. a	75. b	
31. b	76. b	
32. c	77. a	
33. c	78. a	
34. a	79. b	
35. b	80. a	
36. a	81. b	
37. b	82. d	
38. a		
39. a		
40. b		
41. a		
42. b		
43. a		
44. a	89. c	

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KONGUNADU ARTS AND SCIENCE COLLEGE (AUTONOMOUS) **COIMBATORE-641029**



QUESTION BANK

SUBJECT CODE: 15UIT613 TITLE OF THE PAPER: Open Source Tools

DEPARTMENT OF INFORMATION TECHNOLOGY

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Kongunadu Arts & Science College (Autonomous) Department of Information Technology

Question Bank OPEN SOURCE TOOLS- 15UIT613

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Section-A

1.	Linux consist of the operating system referred to as
	a) Kernal b)core c)shell d)Windows
2.	FTP is a
	a) File Text Protocol b) File Test Protocol
	c) Fast Transfer Protocol d) File Transfer Protocol
3.	The program that manages communication between hardware and software for
	user is
	a) OS b)Process c)Application d)Data
4.	The software application enables to edit a document making changes and adding
	new text is called
	a) File b) Editor c) Database d) Folder
5.	
	a) Multiprocessor system b) Multitasking system
	c) Multiuser System d) Multiple Tasking system
6.	The system in which several users can log in to the system at the same time is
	called
	a) Multiprocessor system b) Multitasking system
7	c) Multiuser System d) Multiple user system
7.	MULTICS is a
	a)Multiplexed Information and Computing Service
	b)Multiple Information and Computing Service
	c)Multiplexing Informal Computing Service d)Multiple Informal Computing Service
8.	First commercial version of Unix is
0.	a)System 1 b)System 2 c)System 3 d)System 4
9.	DARPA is
	a) Defence Advanced Research Project Agency
	b) Defective Advanced Research Project Agency
	c) Direct Active Research Project Agency
	d) Direct Advanced Research Project Agency

10. OSF is a) Open Source Foundation b) One Source Foundation c) Open Safe Foundation d) One Safe Foundation 11. The core program that runs programs and manages hardware devices is called as a) Kernal b)core c)shell d)Windows 12. User Interface is provided by c)Windows a) environment b)IDE c)Desktop 13. The way files are stored on a device is organized by d)File a) File Structure b)File Type c)File Size 14. Files are organized into d)menu b)Subdirectory c)Folder a) Directory 15. The interface between the kernal and the user is b)IDE c)Desktop a) environment c)Windows 16. Compressed archives have an extension a) com.gz c)comp.gz d)tar.z b)tar.gz 17. ANSI is a) American National Standard Institute b) American Native Standard Institute c) Asian National Standard Institute d) Asian Native Standard Institute 18. Universal standard for unix version is defined by a) POSIX b)ANSI c)IEEE d)FHS 19. Components in Linux is generally divided into a) 2 b)3 d)5 c)4 20. The System that has its own user interface is a) Linux b)Unix c)Windows d)POSIX 21. PHP Script starts with the tag a) </php c)/> b)php d)php/> 22. Each line of the PHP script is ended with d)/ a) ; b): c),

a)	/*	b)/*	*/	c)//		d)//**.	//
24. Th	e line f	eed char	racter is				
a) \n	b))\r	c)\t	d)\d		
25. Th	e carria	age retur	n charac	ter is			
a)	\n	b)\r	c)\t	d) ^v	\d		
26. W	hich is	used to s	store bot	h numeric a	and non	-numeric i	nformation?
a)	Variat	ole b)c	constant	c)identi	ifier	d)global c	onstant
27. Th	e symb	ol used	to assign	values is			4
a)*	k	b)=	c) +	d)==			, ,9,
28. Va	riable	name mu	ust be pro	eceded by			0109,
a)	@	b)#	c) \$	d)%			0
29. Th	e funct	ion used	l to destr	oy variable	e is	C	
a)	unset(Э	b)set()	c)de	stroy()	d)un_	_set()
30. Th	e funct	ion used	l to displ	ay the varia	able con	tents is	
a)	var_du	imp()	b)vard	lump()	c)_var	rdump()	d)variable_dump()
31. Th	e opera	tor used	l to find	the type of	the part	icular vari	able is
a)	gett	ype()	b)type	() c)§	get_type	e() d)	get()
32. Th	e numb	per of arg	guments	used in det	fine() fu	nction is	
a)	2	b)3		c)4	d)5		
33. Th	e funct	ion used	to decla	are a consta	nt is		
a)	def()	b)d	lefine()	c)#de	ef()	d)#define	0
34. Th	e conc	atenatior	n operato	or is			
a)	(.)	b)(.)	c) +	C	d).+	
35. Th	e statei	nent tha	t chain to	ogether mu	ltiple if-	-else stater	nent is
a)	if-elif	-else	b)if-e	lif c)if-else	d)i	f
36. Al	ternativ	ve to if-e	lif-else s	statement is	3		
a)	For	b)bı	reak	c)switch	d)continue	
37. Th	e funct	ion that	retrieves	the section	n of a str	ring is	
	substr	$\cdot \cap$	b)str()	c)su	b_str()	1) / •	\cap
a)	subsu	0	b)str()	C)Su	U_su()	d)strii	1g()

39. The function that reverses a string is a) strrev() b)str_rev() c)string_reverse() d)str_reverse() 40. The specifier for string is a) %s b)%o d)%x c)%d 41. Name of an array must be preceded by the symbol b)# c)% d)@ a) \$ 42. The function used to destroy variable in an array is a) unset() b)destroy() c)un_set() d)exit() 43. The number of elements in an array is displayed using the function a) max()b) count() c)num() d)avg() 44. The method used to reset the internal array pointer to the first element is a) rewind() b)reset() c)restart() d)return() 45. The method that moves the internal array pointer forward to the next array element is d)after() a) last() b)next() c)front() 46. The method that randomly rearranges the sequence of elements in an array is a) shuffle() b)reset() c)random() d)return() 47. The method that removes the element at the end of the array is a) array_push b) array_pop() c) array_shift() d) array_unshift() 48. The method that adds the element to the end of the array is a) array_push() b)array_pop() c)array_shift() d)array_unshift() 49. The method that adds the element to the beginning of the array is a) array_push() b)array_pop() c)array_shift() d)array_unshift() 50. The method that removes an element to the beginning of the array is a) array_push() b)array_pop() c)array_shift() d)array_unshift () 51. The function that sorts an assosiative array by value is b)kr_sort d)k sort a) asort() c)ksort 52. The function that sorts an assosiative array by key is a) asort() b)a_sort() c)ksort() d)k_sort() 53. The function that reverse sorts an assosiative array by value is a) arsort() b)ar_sort() c)ksort() d)kr_sort()

54. The function that reverse sorts an assosiative array by key is a) krsort() c)ksort() d)kr_sort() d)kr_sort() 55. The code used to display month in string is a) F b) 1 c)D d)m 56. The code used to display month in numeric is c)F a) M b)m d)l 57. The code used to display minute is a) I b)m c)s d) a 58. The code used to display day of the month in numeric is a) I b)m c)s d) d 59. The code used to display the day of the week in string is a) M b)m c)F d) D 60. The keyword used to extend a class is d)implement a) extend b) extends c)sub 61. The contents of the file is read using the function a) file_get_contents() b) get_contents() c)getcontents() d)get() 62. The function accepts name and path of a file a) File() b) Directory() c)dir() d)is file() 63. The function used to read specific number of bytes from the file is a) f_gets() b) fgets() c)f_num() d)file_gets() 64. End of the file is denoted by b)eof a) feof c)f eof d)eof_f 65. The function used to lock a file is a) lock() b)flock() c) f_lock() d)file_lock() 66. Exclusive lock for writing a file is specified by the function b)LOCK () c)LOCK-EX() a) LOCK_EX() d)LOCKEX() 67. Non-Exclusive lock for reading a file is specified by the function a) LOCK() b)LOCK_SH() c)LOCK-SH() d)LOCKSH() 68. The function used to destroy a lock is a) LOCK_EX() b)LOCKSH() c)LOCK () d)LOCK_UN() 69. The function used to reset the internal pointer to the first entry in the directory is a) rewind() b) reset() c) return() d) goto()

70. The current and paraent directories are filtered using the function a) isDot() b) Dot() c) isCurrent() d) is_Dot() 71. The function used to retrieve individual file name is a) getFilename() b)Filename() c)name() d)File_name() 72. The method used to return a pointer to the directory named in the function call is a) Open_dir() b)opendir() d)openDir() c)dir() 73. Parent directory is represented using a) (.) b) (..) c) (::) d)(:) 74. Current directory is represented using a) (.) b) (..) c) (::) d) (:) 75. The function used to return the size of the file in bytes is a) file_size() b) filesize() c) size() d) File_bytes() 76. The function used to return the absolute path of the file is c)path() d)File_path() a) real_path b) realpath() 77. The function used to test if a directory entry is a directory is a) dir() b) isDir() c) is_dir() d) is_Dir() 78. The function used to test if a directory entry is a file is a) is file() b)isfile() c) dir() d)isDir() 79. The method used to remove a directory is a) removedir() b)rmdir() c)rem_dir() d)remove_dir() 80. The method used to delete a file is a) unlink() b)unset() c)un link c)un_set() 81. XML is a)Extensible Markup Language b)Extend Markup Language c)Extends Markup Language d)Exclusive Markup Language 82. Declaration in XML document is referred to as b)document prolog d)identification a) prolog c)extension 83. DTD is a) Document Type Definition b) Data Type Definition

- c) Data Type Declaration
- d) Document Type Declaration
- 84. The document that follows all the rules for element and attribute names is called

Technology

- a) Standard document b) formed document
- c) Well-formed document d)Standard well-formed Document

85. DOM is

- a) Document Object Model
- b) Data Object Model
- c) Data Object Method
- d) Document Object Method

86. SAX is

a)Simple API for XML

b)Source API for XML

c)Simple Application For XML

d)Source Application For XML

87. The structure and Format of XML document is defined by

a) schema b)XML schema c)XML standard d) XML structure

88. XSL is a

- a) Extensible Stylesheet Language
- b) Extended Stylesheet Language
- c) Exclusive Stylesheet Language
- d) Extensive Stylesheet Langugage

89. SVG is

a)Scalable Vector Graphics

b)Scale Vector Graphics

c)Simple Vector Graphics

d)Scale Vertex Graphics

90. SOAP is a

a)Simple Object Access Protocol

b)Simplified Object Access Protocol

- c)Simple Object Accept Protocol
- d)Simplex Object Access Protocol

91. Which method accepts an attribute name and return its value?

a) Attribute() b) setAttribute() c)SetAttribute() d)Set_attribute()

92. Which method returns the collection of all elements from the XML document is

01003

- a) SetElements() b) SetElementByTag()
- c) SetElementByTagName() d) SetTag()

93. The method used to generate new DOM element is

a) CreateElement() b) create_element()

c) Create_Element() d) Create()

94. The method used to create new DOM attribute object is

a) CreateAttribute() b) create_attribute()

c) Create_Element() d) Create()

95. The texual data enclosed within elements is known as

a) data b) text c) character data d) character

96. Basic unit of XML is called as

a) data b) text c) elements d) character

97. The Parser that traverses XML document from Beginning to end is

a) SAX Parser b)DOM Parser c)SOAP d)XSL

98. The Parser that read entire XML document is

a) SAX Parser b)DOM Parser c)SOAP d)XSL

99. Specification for linking XML data structures is

a) Link b)XLink c)X_Link d)X-Link

100. What separates the information gathered in a web form from the form's appearance?

a) Forms b)XForms c)X_forms d)X-Forms

Section-B

- 1.Write notes on Linux Operating System.
- 2. What are the distributions of Linux? Explain.

3. Give description about Operating System and Linux.

- 4.Write notes on History of Unix.
- 5.Write notes on History of Linux.

6. Give description about Overview of Linux.

7. What are third party linux software archives, repositories and Links?

8. Give description about Linux software.

9. What is Linux office and Database software?

10.What are Linux programming sites?Explain.

11. What are the unique features of PHP?

12.Describe about the basic development concepts of PHP.

13. How to destroy variables in PHP? Give example.

chnology 14. How to declare a constant in PHP? Explain with an example.

15.Write a note on if-else statement in PHP.

16. What is Interrupting and skipping loops?

17. How to check empty strings in PHP? Explain.

18. How to compare, count and replace a string in PHP?

19.List out the numeric functions in PHP.

20. How to format numbers in PHP? explain.

21. How to store data in Arrays? Give example.

22. How to modify array values? explain with an example.

23. How to use nested arrays in PHP? Give example.

24. Give description about the foreach loop.

25.What are the formatting codes used for the date() function?explain.

26. How to create a User defined function in PHP?

27. How to use arguments and return values in a function? Give example.

28. How to use Dynamic Argument lists? Give example.

29.Write about Recursive functions in PHP.

30.What is a class?How to define it?

31. How to read local files in PHP? Explain.

32. How to read remote files in PHP? Give example.

33. How to read specific segmetns of a file in PHP? Give example.

34. How to write a file in PHP? give example.

35.What is the use of DirectoryIterator object?Explain.

36. How to check if a file or directory exists in PHP? Give example.

37. How to find the absolute file path in PHP?

38.What are the three categories of SQL statements?

39. Give description about MySQL data types.

40. How to retrieve records as Arrays and Objects in SQLite?

41. Give description about basics of an XML document.

42. What is well-formed and Valid XML?

43.What are the Parsing methods used in XML?Explain.

44. Give description about working with elements in XML.

45.How to alter elements and attribute values in XML?

46. How to add New elements and attributes in XML?

47. How to create a new XML document? Explain.

48. Give description about working with elements using PHP's DOM extension.

49. How to alter element and attribute values using DOM?

50. How conversion between DOM and SimpleXML is carried out?

SECTION-C

1.Explain Linux Operating Systems.

2. Explain Linux Distributions and Kernel Sites.

3. Give description about Operating System and Linux

4. Give description about History of Linux.

5. Give description about History of Unix.

6.Explain Overview of Linux.

7. What are Open Source Software.

8.Explain Linux Software.

9. What are Internet servers? Give example

10.Explain Linux documentation.

11. What are the basic development concepts in PHP?

12. How to set and check variable data types in PHP?

13. How to compare variables in PHP?explain with an example.

14. How to declare a variable and constant in PHP?Give example.

15. What is the use of if-elseif-else statement in PHP?

16. Explain the Switch-case statement with an example.

- 17. List out the String functions in PHP.
- 18. Write a note on Working with HTML strings
- 19. Explain the Numeric functions in PHP with an example.
- 20. How to format strings in PHP?Explain with an example.
- 21. How data's are stored and values are assigned in an array? Give example.
- 22.Explain Processing loops with Arrays and Iterators.
- 23. What are the Array functions in PHP? Explain.
- 24. How to add and remove array elements in PHP?
- 25. How to randomize and reverse array in PHP? Give example.
- 26.How sorting is done in Arrays?Give example.
- 27. How to use Arguments and Return values in functions? Give example.
- 28.Explain Dynamic Argument lists and variable scope with an example.
- 29.Explain how to define and create classes in PHP?
- 30.Explain Advanced OOP concepts with an example.
- 31. How to read specific segments of a file? Give example.
- 32. How to Process directories in PHP? Give example.
- 33. How to retrieve file attributes? Give example.
- 34. How to remove files or directories in PHP? Give example.
- 35.Write about Relationships, foreign keys and SQL statements.
- 36. How to create and add records in a table? Give example.
- 37. How to retrieve data from MySQL database? Give example.
- 38. How to add or modify data using SQLite?
- 39. How data's are retrieved using PDO database?
- 40.What are the modifiers used with the fetch() method in PDO?Give example.
- 41.Explain Anatomy of an XML document.
- 42. Give description about XML technologies.
- 43. How to add new elements and attributes to an XML document? Explain.
- 44. How to create a new XML document? Explain.
- 45.Explain Working with elements using PHP's DOM Extension.
- 46. Explain Working with Attributes using PHP's DOM Extension.
- 47. How to alter elements and attribute values using PHP's DOM Extension?
- 48. How to create a new XML document using DOM?

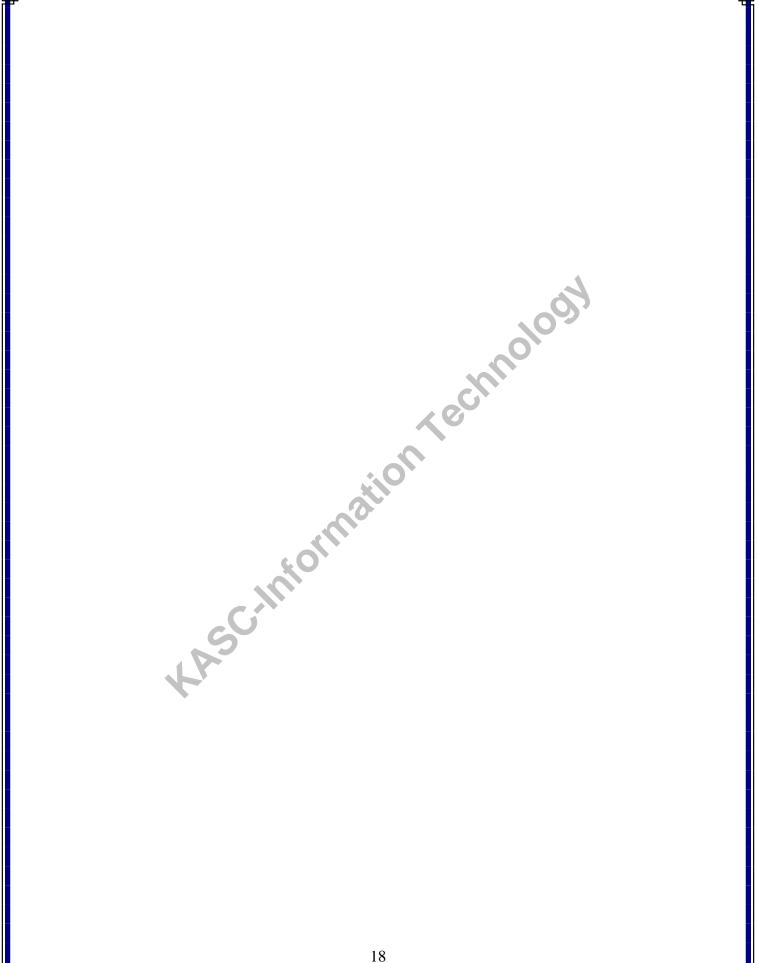
49.How to work with elements using SimpleXML Extension?50.How to alter elements and attribute values using SimpleXML Extension?

wheeling

Key Answers:

1. a)Kernal	28. c) \$
2. d)File Transfer Protocol	29. a)unset()
3. a)OS	30. a) var_dump()
4. b)Editor	31. a) gettype()
5. b)Multitasking system	32.a) 2
6. c)Multiuser System	33. b)define()
7. a)Multiplexed Information and	34. a)(.)
Computing Service	35. a)if-elif-else
8. a)System 1	36. c)switch
9. a)Defence Advanced Research	37. a) substr()
Project Agency	38. b)strcmp()
10. a)Open Source Foundation	39. a)strrev()
11. a)Kernal	40. a) %s
12. a)environment	41. a)\$
13. a)File Structure	42. a)unset()
14. a)Directory	43. b) count()
15. a)environment	44. a)rewind()
16. b)tar.gz	45. b)next()
17. a)American National Standard	46. a)shuffle()
Institute	47. b)array_pop()
18. a)POSIX	48. a)array_push()
19. b)3	49. d)array_unshift
20. a)Linux	50. c)array_shift()
21. a) <td>51. a)asort()</td>	51. a)asort()
22 .a);	52. c)ksort()
23. b)/**/	53. a)arsort()
24. a)\n	54. a) krsort()
25. b)\r	55. a)F
26. a)Variable	56.b)m
27. b)=	57.a)I

58. d)d 80.a)unlink() 59.d)D 81.a)Extensible Markup Language 60.b)extends 82.b)Document Prolog 61.a)file_get_contents() 83.a)Document Type Definition 62.a)File 84.c)Well-Formed Document 63.b)fgets() 85.a)Document Object Model 64.a)feof 86.a)Simple API for XML 87. b)XML Schema 65.b)flock()88. a)Extensible StyleSheet Language 66.a)LOCK_EX() 89.a)Scalable Vector Graphics 67.b)LOCK_SH() 68.d)LOCK_UN() 90.a)Simple Object Access 91.c)SetAttribute() 69.a)rewind() 92.c)SetElementByTagNAme() 70.a)isDot() 93.a)CreateElement() 71.a)getFilename() 94.a)CreateAttribute() 72. a)OpenDir() 95.c)CharacterData 73.b)(..) Ascimorma 74.a)(.) 96.c)elements 97.a)SAX Parser 75.b)filesize() 98.b)DOM Parser 76.b)realpath() 77.c) is_dir() 99. b)XLink 78.a) is_file() 100.b)XForms 79.b)rmdir()



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QUESTION BANK T C SUBJECT CODE: (17UIT3S1) TITLE OF THE PAPER: PYTHON PROGRAMMING I

DEPARTMENT OF INFORMATION TECHNOLOGY

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Question Bank PYTHON PROGRAMMING- I (17UIT3S1)

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SECTION-A

1. Python posse	esses a property of code	e is termed as			
a.Dynamic	b. Reusability	c. Interpreted	d. General-purpose		
2. The Statemen	2. The Statement is used to display the output screen.				
a.Print	b. Comment	c. Identifiers	d. Keyword		
3. The Symbol,	which is used for com	menting.			
a.>>>	b. #	c. ()	d. " "		
4. In python, an identifier must begin with					
a.Letter	b. underscore	e c. digits	d. all		
5. In python, w	riting the name of a va	riable.	105		
a.Declare	b. initialize	c. list	d. code		
6. In python, assigning a value to a variable.					
a.Declare	b. initialize	c. assign	d. define		
7. In python, he	7. In python, how many types of data are supported?				
a.6	b. 5	c. 4	d. 3		
8. How many ways to start a python programming?					
a.3	b. 4	c. 5	d. 6		
9. The first app	roach in python progra	mming is			
a.Text editor	b. GUI	c. IDE	d. Notepad		
10. The second approach in python programming is					
a.GUI	b. Wordpad	c. Notepad	d. IDE		
11. In python programming has a list of reserved words known as					
a.Keywords	b. Identifiers	c. Comments	d. Variables		
12. The operator, which is used to assigning a value to a variable.					
a.=	b.''	c. #	d. ()		
13. By which str	ring data type is used c	combine two or more st	rings.		
a.Slicing	b. concatenation	c. repetition	d. reverse		
14. The operator, which is used to separate the items in the list.					
a.#	b.,	c. []	d. " "		
15. The data type is used to store sequence of items.					
a.Tuple	b. list	c. Boolean	d. numeric		

16 Decembration		anta ana da Cina d		
-	ata type order of eleme			
a.Numeric	b. list	c. String	d. dictionary	
17. The items w	which are enclosed with	hin square brackets.		
a.List	b. tuple	c. String	d. numeric	
18. The sequence of items, which are enclosed within parenthesis.				
a.List	b. tuple	c. Boolean	d. String	
19. The data type which is an ordered collection of data.				
a.Dictionary	b. numeric	c. String	d. Boolean	
20. The string, which is used to repeat the same string for several times.				
a.Slicing	b. concatenation	c. repetition	d. string	
21. The operator	which is used to com	pare the values.		
	b. comparison	c. logical	d. bitwise	
1		ulate the power values.		
a.Multiplicat		c. Exponentia	d. modulus	
-	which is used to shift			
a.<<	b. >>	c. &	d.	
		e printed? Where $x = 4.5$		
a.2.0	b. 2.25	c. 0.25	d. 0.5	
	e following is not an a	-		
a.*	b. **	c. //	d. =	
-	r is used to reverse the	•	T 11.4 °	
a.Logical AN inverse	ND b. logical O	R c. logical NO'	T d. bitwise	
	tor will reduces the ef	ffort of searching an elen	nent in the list?	
a.Arithmetic		on c. membershi		
		n is in list in membership		
a.In	b. not in	c. is	d. not is	
		ert all upper case letters		
a.Lower()	b. upper()	c. isalpha()	d. isdigit()	
~		irst index of search string	e v	
a.Find("strin		-	d. upper()	
31. What will be	the output of str[0:4]	if str ="Hello" ?	••	
a.Hello'	b. 'H'	c. 'Hel'	d. 'Hell'	
32. Which of the	e following is the floor	r division operator?		
a./	b. %	c. //	d. \\	
33. Which of the following is used to access single character of string?				
a.[:]	b. ()	c. [.]	d. []	

34. Which of the following operator is used for repetition?
a.* b. + c. = d. ()
35. Which of the following is used to display the statement?
a.Print b. Assignment c. Expression d. String
36. How many types of operators in python?a.6b. 7c. 8d. 9
37. In arithmetic operators, which operator can be used to find the remainder?
a.+ b c. * d. %
38. What will be the output of x=10, y=12 and z=0, if $z=x//y$?
a.10 b. 12 c. 2 d. 0
39. What will be the output of test[:3], if test = "Test String"?
a. 'Tes' b. 'est' c. 'st St' d. 'Test'
40. What will be the output of s="Hello", if s.alpha()?
a.True b. False c. 'Hello' d. in
41. Iterator based loop is
a. for b. dowhile c. switch d. break
42. Built-in function in python is
a. name() b.range() c. func() d. def()
43. Range() function generates sequence of numbers that starts with
a. 0 b. 1 c. n-1 d.n
44. Range () function generates sequence of numbers that ends with
a. 0 b. 1 c. n-1 d.n
45. The first argument in range() is
a. begin b.start c. first d. step
46. The second argument in range () is
a. begin b.start c. first d. end
47. The statement that transfers the execution from the loop to the statement that is
immediately following the loop is
a. for b.return c. break d.continue
48. Multiple expression for true can be checked with the help of
a. if b. if-else c. if-else-if d.if elif else
49. In if elif else the optional statement is
a. elif b. else c. if d. elif else

50.	The function that prompt the input from the user is
	a. input() b. func() c. function() d. raw_input()
51.	The function that does not interpret the input is
	a. input() b. func() c. function() d. raw_input()
52.	The repetition of a set of statements or a piece of code is
	a. loop b. block c. iteration d.function
53.	The word that is reserved in a programming language is
	a. argument b. parameter c. keyword d. list
54.	The value on which the operator operates is called
	a. operand b. parameter c. keyword d. list
55.	The statement iterates over the items in sequence in the order is
	a. for b.return c. break d.continue
56.	Type casting can be done in
	a. input() b. func() c. function() d. raw_input()
57.	Most preferred function for input is
	a. input() b. func() c. function() d. raw_input()
58.	The function that interprets the input from the user is
	a. input() b. func() c. function() d. raw_input()
59.	The decision making statement is
	a. if b.return c. break d.continue
60.	
	a. if b.return c. break d.continue
61.	Type conversion is
	a. implicit b. explicit c. default d. unknown
62.	Type Coercion is
	a. implicit b. explicit c. default d. unknown Interface
63.	The module that contain mathematical functions is
	a. mathb. maths c. sin d.log
64.	The file that contains some predefined codes is
	a. module b. folder c.directory d. function
65.	
	a. module b. folder c.directory d. function

66.	To access the function the name of the function is followed by.
	a. (.) b.(,) c.(;) d. (:)
67.	Module name is preceded by the statement
	a. import b. def c. header d. module
68.	The method used to get time in readable format is
	a. asctime() b. time() c. asc() d. atime()
69.	The method used to get current date and time is
	a. asctime() b. time() c. asc() d. atime()
70.	Name of the module to display calendar is
	a. calendar b. date c. time d. month
71.	The function used to display month is
	a.day() b.date () c.month() d.cal()
72.	The function takes an object as argument is
	a.len() b.help() c.range() d. dir()
73.	The built-in function that gives detailed information about the object is
	a. len() b.help() c.range() d. dir()
74.	A file that contains a collection of realted function and definition is
	a. module b. folder c.directory d. function
75.	The statement used to import various modules in python is
	a. def b. import c. module d. modules
76.	The detailed information about the module is given by
	a.def() b.help() c.module() d. dir()
77.	The syntax of composition of function is
	a.fog() b.f(g(x))=fog(x) c.f(f(x)) d. f(g(x))
78.	The names of members of the object are returned by using
	a.def() b.help() c.name() d. dir()
79.	The time function returns the time tuple with how many items
	a.5 b.7 c.8 d.9
80.	The variables used to pass some values to a function definition between
1	paranthesis is
	a.parameters b.arguments c.constants d.literals

81. Defining a function is known as

a. function definition b.Intialization c. definition d. Specification 82. In a function definition users have to define . a. name of the function b. list of statements c. both a&b d.parameters 83. In function the block is ended with the statement a. end b. return c. exit d. goto 84. To return more than one value separate the values using a. a. Colon(:) b.Comma(,) c. semicolon(;)d. dot(.) 85. The default return value is a. None b. void c. one d. two 86. The first line in the definition of function is known as d. parameter a. header b. heading c. name 87. The header line will always end with c. semicolon(;)d. dot(.) a. Colon(:) b.Comma(,) 88. The block of the statement always starts with a. Colon(:) b.Comma(,) c. semicolon(;) d. dot(.) 89. What is the use of the return statement? a.null value b. initiate a function c. exit a function d. none 90. Which keyword is used to define the block of statements in the function a. function b. def c. func d. pi 91. A function is called using the name with which it was defined earlier, followed by: a. { } b. () c. <> d. [] 92. What are the advantages of using functions? a.Reduce duplication of code b. clarity of code c. Reuse of code d. All 93. The caller recognizes the arguments by the parameter name is called a.Default arguments b. Required arguments. c. Variable length arguments d. Keyword arguments The value assigned to a parameter at the time of function definition is called 94. a. Default arguments b. Required arguments.

	c. Variable length arguments	d. Keyword arguments
95.	Function with more number of argumen	nts specified in function definition is
	a. Default arguments	b. Required arguments.
	c. Variable length arguments	d. Keyword arguments
96.	The number of arguments should match	the defined number of parameters is
	a. Default arguments	b. Required arguments.
	c. Variable length arguments	d. Keyword arguments
97.	In variable length arguments the name of	of the variable must be preceded by
	a. (:) b.(,) c. (;)	
98.	The statement used to exit a function is	oto
	a. end b. return c. exit d. g	oto
99.	In function definition the rest is abbrevi	
	a. header b. body c. bloc	
100.	Process of repeating a function is know	n as
	a. recursive b. return c. voi	d d. repeat
)*
	<u>SECTION-B</u>	
1. E	Explain about the Python Overview.	
2. D	Describe about the installing on linux OS	

3. Discuss about the installing on windows OS.

4. Explain about the Comments.

5. Describe about the python Identifiers.

6. Discuss about the Reserved keywords.

7. Explain about the declaring a variable.

8. What is list? Explain about it.

9. What is tuple? Explain about it.

10. Explain about the concept of dictionary.

11. Explain about the Arithmetic operator with an example.

12. Explain about the Membership operator with an example.

13. Discuss about the Precedence of operators.

- 14. What is statement? Explain about it.
- 15. Explain about the Slicing in String operators.
- 16. Discuss about the concept of Boolean Expressions.
- 17. Write a program to find the square root of a number?
- 18. Write a program to find the area of a rectangle?
- 19. Write a program to swap the values of two variables?
- 20. What is an operator? Explain Assignment operator with an example.
- 21. Write a note on For loop with an example.
- 22. Write a note on range() function.
- 23. What is the use of While statement?
- iechnolog! 24. What are break and continue statements in Python?
- 25. What is if-elif-else statement?
- 26. What is the use of input() function?
- 27. What is raw_input() function?
- 28. Write a program to find Odd and Even Numbers.
- 29. Write a program using range() function.
- 30. Write a program using while statement.
- 31. What are Mathematical Functions?
- 32. How Mathematical functions are used in Python?
- 33. Write a Program to print the calendar for the month of March 1991.
- 34. What is help() function?
- 35. Write a Program using help() function.
- 36. Write a program to print the Cos of 45 degrees.
- 37. Write about Working with date and time in Python.
- 38. What is a function?
- 39. What is Type Conversion?
- 40. What is Type Coercion?
- 41. What is a function? Explain about the User- defined Functions.
- 42. Explain about the concept of parameters with an example.
- 43. Discuss about any two types of arguments.
- 44. Explain about the concept of the return statement with an example.

- 45. Explain about the Python Recursive function.
- 46. Write a program to find the HCF of given numbers?
- 47. Write a program to convert the decimal numbers to its binary, octal and hexadecimal equivalents?
- 48. Write a program to display factors of a given number?
- 49. Write a program to find the sum of natural numbers using recursion?
- 50. Write a program to find the factorial of a given number?

<u>SECTION –C</u>

- 1. What is Python? Explain about the overview of python.
- 2. What are all the ways to start the python? Explain in detail about installing python on various OS.
- 3. Explain about the python Comments and identifiers with an neat diagram.
- 4. What is a variable? Explain about the variables.
- 5. Explain any 4 types of data in python programming.
- 6. Discuss in detail about the string data type in python with a neat diagram.
- 7. Discuss in detail about the Standard data types in python.
- 8. Explain in detail about the concept of Numeric, List and Tuple data type in python.
- 9. How to install python on windows OS? Explain with its neat diagram.
- 10. How to Initializing a variable in python? Explain with an example.
- 11. Explain about the Arithmetic operator with an example.
- 12. Explain about the Membership operator with an example.
- 13. Discuss about the Precedence of operators.
- 14. What is statement? Explain about it.
- 15. Explain about the Slicing in String operators.
- 16. Discuss about the concept of Boolean Expressions.
- 17. Write a program to find the square root of a number?
- 18. Write a program to find the area of a rectangle?
- 19. Write a program to swap the values of two variables?
- 20. What is an operator? Explain Assignment operator with an example.

- 21. Explain For loop and give an example to print the letters using using for loop.
- 22. How to print a range of values using range() function? Give example
- 23. Explain While ,Break and Continue statements in Python.
- 24. Write a program to print even numbers using break and continue statements.
- 25. Explain if elif else statement with example.
- 26. Write a program in python using while statement
- 27. Write a Program to print the largest of three numbers.
- 28. Write a program to print whether the input year is leap or not.
- 29. Write a program to print fibonacci sequence of n terms.
- nnologi 30. How to display a list of elements using range() function?
- 31. Explain Built-in functions in Python.
- 32. What is Type Conversion?Explain.
- 33. What is Type Coercion?Explain with ex.
- 34. Give the syntax required to convert an integer number into string and float to an integer value.
- 35. What are Mathematical functions in Python? Explain.
- 36. Write a program to get current date and time.
- 37. Write a program to get formatted date and time.
- 38. Write a program to print Calendar for a Month.
- 39. What is Composition of functions? Explain.
- 40. What is dir() function?Explain.
- 41. What is a Function? Explain in detail about the concept of user defined functions.
- 42. Explain in detail about the Parameters and Arguments with an example.
- 43. Illustrate the concept of Python recursive Functions and the return statement.
- 44. Discuss in detail about the concept of arguments & explain any two of the arguments.
- 45. What is a Function? Explain about the Required arguments and Keyword arguments.
- 46. What is a Function? Explain about the Default arguments and Variable-length arguments.
- 47. Write a program to find the sum of natural numbers using recursion and factorial of a given number.

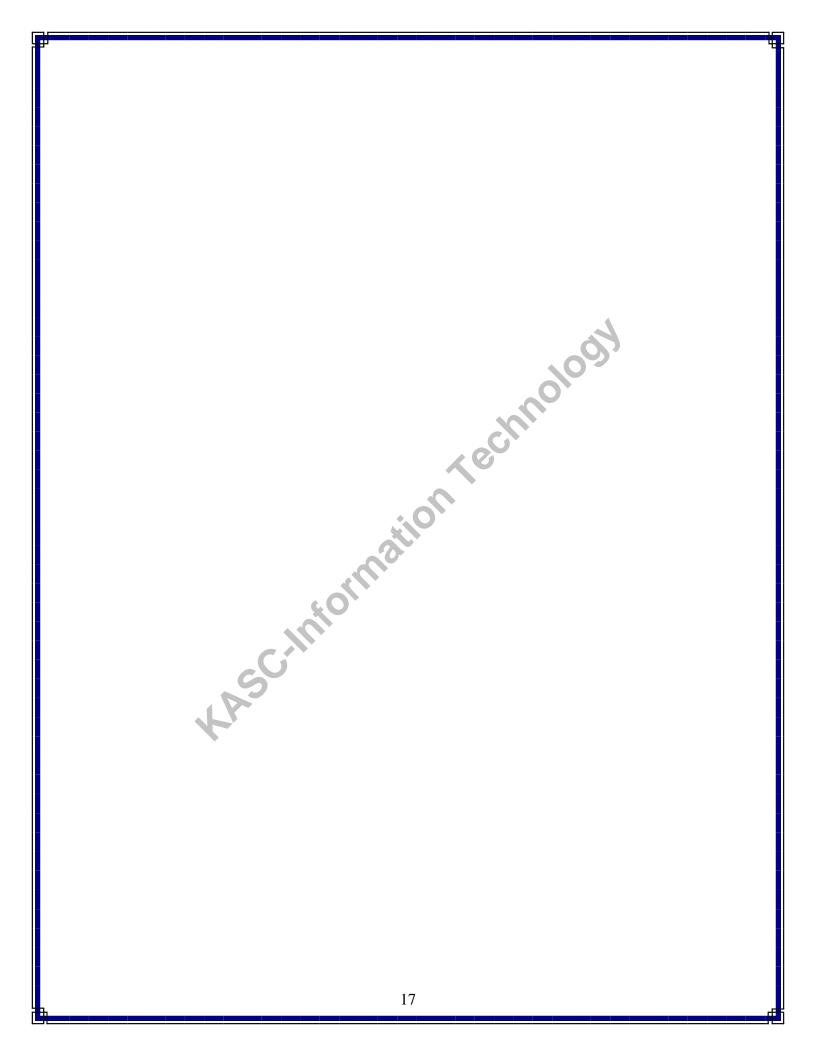
- 48. Write a program to convert to convert the decimal numbers to its binary, octal and hexadecimal equivalents? Explain the concept of user defined function in this program.
- 49. Illustrate the concept of user defined function with an example.
- 50. Discuss in detail about the concept of the return statement with an example program.

ANSWERKEY (SECTION A) thermation

- 1. b.reusability
- 2. a.print
- 3. b.#
- 4. d.all
- 5. a.Declare
- 6. b.initialize
- 7. a.6
- 8. a.3
- 9. a.texteditor
- 10. a.GUI
- 11. a.Keywords
- 12. a.=
- 13. b.concatenation
- 14. b.comma
- 15. a.tuple
- 16. d.dictionary
- 17. a.list
- 18. b.tuple
- 19. a.dictionary
- 20. c.repitition
- 21. b.comparison
- 22. c.exponential
- 23. a.<<
- 24. d.=

25. a.2.0 26. c.logical not 27. c.membership 28. a.IN 29. a.lower() 30. a.find("String") 31. c.Hel clintormation technology 32. c.// 33. d.[] 34. a.* 35. a.print 36. b.7 37. .d.% 38. d.0 39. a.'Tes' 40. a.true 41. a.for 42. b.range() 43. a.0 44. c.n-1 45. a.begin 46. d.end 47. c.break 48. d.if elif else 49. a.elif 50. input() 51. d.raw_input 52. c.iteration 53. c.keyword 54. a.operand 55. a.for 56. d.raw_input() 57. d.raw_input() 58. a.input() 59. a.if 60. b.return

61. b.explicit 62. a.implicit 63. a.math 64. a.module 65. a.module 66. a(.) 67. a.import 68. a.asctime() 69. b.time() hnormation 70. a.calendar 71. c.month() 72. d.dir() 73. b.help() 74. a.module 75. b.import 76. b.help() 77. b.f(g(x)) = fog(x)78. d.dir() 79. d.9 80. a.parameters 81. a.function definition 82. c.both a&b 83. b.return 84. b.comma(,) 85. a.none 86. a.header 87. a.colon(:) 88. a.colon(:) 89. c.exit a function 90. b.def() 91. b.() 92. d.All 93. d.Keyword arguments 94. a.Default arguments 95. c.Variable length arguments 96. b.Required arguments 97. d.(*) 98. b.return 99. b.body 100. a.recursive



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Subject code

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Title of the paper

RELATIONAL DATABASE MANAGEMENT SYSTEM AND ORACLE

DEPARTMENT OF INFORMATION TECHNOLOGY

NOVEMBER 2018

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SECTION A

- 1. The full form of SQL is a) Single Query Language b) Structured Query Language c) Structured Query Log d) Single Query Log 2. A command is used to change a table's structure a) alter b) update c) delete d) Drop 3. This not a DDL Command. a) Rename b) Revoke c) Grant d) Update 4. A command lets user to change one or more fields in a record. chnology a) insert b) modify c) Lookup d) Drop 5. SQL Keyword used to retrieve a maximum value is b) Most c) Lookup a) Top d) Max 6. Which of the command is used to retrieve data? a) Select b) update c) delete d) Drop 7. Which of the following is a SQL Aggregate function? a) Left b) Avg c) Join d) Len 8. The SQL statement is used to modify data in database. a) alter b) update c) delete d) Drop 9. The SQL statement is used to remove only data in database. a) alter b) update c) delete d) Drop 10. A command undo all the operations performed by SQL in transaction. a) Rollback b) Commit c) delete d) Truncate 11. The Query finds all cities with temperature, condition, humidity where humidity is in range of 63 to 79 a) SELECT * FROM weather WHERE humidity IN (63 to 79) b) SELECT * FROM weather WHERE humidity NOT IN (63 AND 79) c) SELECT * FROM weather WHERE humidity BETWEEN 63 AND 79 d) SELECT * FROM weather WHERE humidity NOT BETWEEN 63 AND 79
- 12. The query finds the names of countries whose condition is sunny.
 - a) SELECT country FROM location WHERE condition = 'sunny';
 - b) SELECT country FROM location WHERE city IN (SELECT city FROM weather WHERE condition = sunny');
 - c) SELECT country FROM location WHERE city NOT IN (SELECT city FROM weather WHERE condition = 'sunny');

- d) SELECT country FROM location WHERE city UNION (SELECT city FROM weather WHERE condition = 'sunny');
- 13. The Query decides the order of precedence if NOT, AND, OR with no parenthesis is considered.
 - a) NOT will be evaluated first; AND will be evaluated second; OR will be evaluated last.
 - b) NOT will be evaluated first; OR will be evaluated second; AND will be evaluated last.
 - c) AND will be evaluated first; OR will be evaluated second; NOT will be evaluated last.
 - rechnology d) The order of occurrence determines the order of evaluation.
- 14. A query used to add a data to the database is
 - a) Insert b) update c) Alter d) Invoke
- 15. The SQL Alter statement can be used to
 - change the table data. a)
 - change the table structure. b)
 - delete rows from the table. c)
 - add rows to the table. d)
- 16. The command used to remove rows from a table 'Customer' is
 - drop from customer ... a)
 - update from customer ... b)
 - remove from customer c)
 - delete from customer where ... d)
- 17. The SOL 'Where Clause'
 - a) limits the row data that are returned
 - b) limits the column data that are returned
 - c) limits row & column Data
 - d) Does not limits row data

18. The command to eliminate a table from database is

- a) drop table customer:
- b) delete table customer;
- c) remove table customer;
- d) update table customer;
- 19. The result of a SOL statement is
 - a) File b) Report c) Table d) Form

20. The SQL Keyword Between is used

- a) to limit the columns displayed.
- b) for ranges.
- c) as a wildcard.
- d) to exceed the columns displayed.
- 21. A row lacking a data value for a particular column that value is said to be
 - a) NULL b) UNIQUE c) DEFAULT d) PRIMARY
- 22. The data constraints will be connected to a cell by DBA asa) Flags b) Keys c) Records d) Fields
- 23. The value is not equivalent to a value of zero.a) NULL b) DEFAULT c) UNIQUE d) PRIMARY
- 24. A column when defined as that column becomes mandatory.a) NULL b) UNIQUE c) NOT NULL d) PRIMARY(
- 25. The value can be assigned to row at the time of cell creation.
 - a) Default b) Procedure c) Function d) Trigger
- 26. A key is used to uniquely identify each row in a table.
 - a) null b) foreign c) default d) primary
- 27. A multicolumn primary key is called a primary key.
 - a) unique b) composite c) default d) new
- 28. A key represents relationships between tables.
 - a) foreign b) unique c) default d) primary
- 29. A key constraint is used to enforce integrity rules evaluated based on logical epression.
 - a) foreign b) unique c) check d) primary
- 30. A is an example of Check key integrity constraint.
 - a) NULL b) UNIQUE c) NOT NULL d) PRIMARY
- 31. A clause restricts the range of valid values for a column.
 - a) Constraint b) When c) Where d) Is
- 32. A acts as primary key in one table and non prime in another table.

a) foreign b) unique c) check d) primary

- 33. A _____ operator performs pattern matching.a) Between b) Like c) Exists d) when
- 34. A operator tests column for absence of data.a) Not Null b) Like c) Exists d) Is Null
- 35. Fine all tuples having temperature greater than Paris.
 - a) SELECT * FROM weather WHERE temperature > (SELECT temperature FROM)

weather WHERE city = 'Paris')

b) SELECT * FROM weather WHERE temperature > (SELECT * FROM weather WHERE city = 'Paris')

c) SELECT * FROM weather WHERE temperature > (SELECT city FROM weather WHERE city = 'Paris')

d) SELECT * FROM weather WHERE temperature > 'Paris' temperature

36. The Option satisfies the name of cities with temperature and condition whose condition is either Sunny or Cloudy but temperature is greater than 70°F.

a) SELECT city, temperature, condition FROM weather WHERE condition = 'sunny' AND condition = 'cloudy' OR temperature > 70;

b) SELECT city, temperature, condition FROM weather WHERE condition = 'sunny' OR condition = 'cloudy' OR temperature > 70;

c) SELECT city, temperature, condition FROM weather WHERE condition = 'sunny' OR condition = 'cloudy' AND temperature > 70;

d) SELECT city, temperature, condition FROM weather WHERE condition = 'sunny' AND condition = 'cloudy' AND temperature > 70;

37. Which of the following is not an SQL constraint?

a) Primary Key b) Alternate Key c) Foreign Key d) Unique Key 38. The wildcard in 'Where' clause is useful when an exact match is

a) necessary in a CREATE statementb) necessary in a SELECT statementc) not possible in a SELECT statementd) not possible in a CREATE statement.

• •

39. The SQL Keyword used with wildcards is

a) NOT IN only b) LIKE only c) IN only d) IN and NOT IN

40. Under which language is Alter statement included.

a) DML b) DRL c) DDL d) DCL

- 41. A Subquery in select statement is enclosed with
 - a) parenthesis -- (...) b) brackets -- [...]
 - c) CAPITAL LETTERS d) braces -- {...}

42. A command which is also called inner join is

a) Equijoin b) Natural c) Left d) Right

- 43. Checks for the condition and displays the available values from left outer join.a) Left Join b) Full Join c) Right Join d) Natural Join.
- 44. Is a database object from which multiple users can generate unique integers.a) Synonyms b) Sequences c) View d) Tables
- 45. The data represents how user wants to see current dataa) Logical b) Physical c) View d) Column

46. The are masks placed upon a table.

a) Logical b) Physical c) View d) Column

- 47. A is a form of SQL statement that appears inside another SQL statement.a) Subquery b) Not in c) Default d) Checkkey
- 48. The index consists ofa)List of keysb) Pointer to listc) Keys and pointerd) Check keys
- 49. A evaluates true if last fetch has failed when no rows are available.a)%NOTFOUND b) %ISFOUND c) %FOUND d) *NOTFOUND
- 50. A is the logical opposite of %NOTFOUND.a)%NOTFOUND b) %ISFOUND c) %FOUND d) *NOTFOUND
- 51. The returns the number of rows fetched from active set. a)%NOTFOUND b) %ROWCOUNT c) %FOUND d) *NOTFOUND
- 52. A evaluates true if an explicit cursor is open.
 a) %ISOPEN b) %ROWCOUNT c) %FOUND d) *NOTFOUND
 53. An entity set is represented by a set of
- a) Attributes b) tables c) lines d) rows
- 54. Which command is used to redirect all statements and queries during a session?
 - a) Truncate b) Spool c) TREE d) CD
- 55. Acronym of SQL is.
 - a) Structured Query Language b) Standard Query Language
 - c) Struct Query Language d) Simple Query Language
- 56. The wild-card used to represents zero or more characters.
 - a) & b) % c) _ d) &&

57. The clause id used to group rows together in a select statement.

a) PRINT b) GROUPBY c) UNDEFINE d) ORDER BY

- 58. The oracle function that returns the current date from the system.
 - a) DECODE b) DEFINE c) SYSDATE d) SELECT
- 59. An nonequijoin has a join condition that does not use the operator
 - a) = b) > c) < d) !=

output from two individual queries a) DEFINE b) SELECT c) ORDER BY d) DECODE 61. Permits DML statements in a table during regular business hours. d) Data Dictionary a) Cache b) Bus c) Triggers 62. Oracle loads the compiled procedure in memory area called a) SSG b) SGS c) SRG d) SGA 63. provides oracle with highly customized DBMS & prevents invalid transactions. b) Procedure c) Functions d) Query. a) Trigger chnoloc 64. Which of the following is NOT an Oracle-supported trigger? a) Before b) After c) During d) Instead Of 65. Triggers be enabled or disabled. a) Can b) Cannot c) Ought d) Always 66. Which prefixes are available to Oracle triggers? b) : old only c) Both :new and : old a) : new only d) Neither :new nor : old 67. The trigger fires once during every post and commit transactions event. a) post commit b) post change c) post delete d) post insert 68. The trigger fires when Leave the Record event occurs. a) post record b) post change c) post delete d) post insert 69. A trigger which fires durig post and commit transactions event occurs is a) On-Update b) post change c) post delete d) post insert 70. The part contains declaations of cursors, constants ,variables etc. a) Declarative b) Executable c) Exception handling d) post insert 71.A part contains PL/SQL block consisting of statements that assign values, control execution and manipulate data. a) Declarative b) Executable c) Exception handling d) post insert 72. Oracle loads the compiled procedure in memory area called

60. The set operators UNION, UNION ALL, INTERSECT and MINUS are used to connect

a) System Global Area b) System Garbage Area c) Slow Global Area d) System Gate Area

73. The parameter specifies that you must give a value for argument when calling the
procedure.
a) IN b) OUT c) IN OUT d) REPLACE
74. The parameter specifies that procedure passes a value for argument.
a) IN b) OUT c) IN OUT d) REPLACE
75. A trigger specifies a Boolean expression that must be true for trigger to fire.
a) Declarative b) Restriction c) Exception handling d) post insert
76. Which section contains statements to manipulate data and database.
a) Declaration b) Exception c) Executable d) Begin
77. Which loop the statements are executed atleast once.
a) Basic b) do c) While d) For
78. Components in a pl/sql record are called
a) Records b) row c) fields d) arrays
79. DML statements is based on a.
a) Records b) Triggers c) Exceptions d) Tables
80. A named PL/SQL module that can perform one or more tasks.
a) Package b) Records c) Procedure d) Functions
81. Is the process of inspecting, cleaning, transferring & modeling data with goal of highlighting useful information.
a) Data mining b) Data analysis c) Data warehouse d) Data set
82. The term Data Warehouse was coined in the year
a) 1980 b) 1998 c) 1990 d) 1975.
83. Focuses on modeling & knowledge discovery for predictive purposes.a) Data warehouse b) Data analysis c) Data mining d) Data set
84. Is a technique during which data is inspected & erroneous data are collected.a) Data cleaningb) Data martc) Data searchd) Clustering.
85. In geographic databases consists of points, lines, polygons, and other map or cartographic features.
a) Graphic data b) Non Graphic data c) Spatial data d) Index data.

- 86. Data scrubbing is which of the following?
 - a) A process to reject data from the data warehouse and to create the necessary indexes
 - b) A process to load the data in the data warehouse and to create the necessary indexes
 - c) A process to upgrade the quality of data after it is moved into a data warehouse
 - d) A process to upgrade the quality of data before it is moved into a data warehouse
- 87. Is a subject-oriented, integrated, time-variant, nonvolatile collection of data in support of management decisions.
 - a) Data Mining b) Data Warehousing. c) Web Mining d) Text Mining.

88.ExpansionforDSSis

- a) Decision Support systemb) Decision Single Systemc) Data Storable System.
- 89. The data is stored, retrieved & updated in a) OLAP b) OLTP c) SMTP d) FTP
- 90. Describes the data contained in the data warehouse. a) Relational data b) Operational data c) Metadata d) Informational data
- 91. Predicts future trends & behaviors, allowing business managers to make proactive, knowledge-driven decisions.

a) Data warehouse b) Data mining c) Datamarts d) Metadata.

- 92. Is the specialized data warehouse database. a) Oracle b) DBZ c) Informix d) Redbrick
- 93. Databases are owned by particular departments or business groups.a) Informational b) Operational c) Both informational and operational d) Flat.
- 94. Data warehouse contains data that is never found in the operational environment.a) Normalized b) informational c) summary d) denormalized
- 95 Test is used in an online transactional processing environment. a) MEGA b) MICRO c) MACRO d) ACID.
- 96. The full form of KDD is a) Knowledge database b) Knowledge discovery in database
 - c) Knowledgedatahouse d) Knowledge data definition.
- 97. Removing duplicate records is a process called a) Recovery b) data cleaning c) data cleansing d) data pruning
- 98. Data marts that incorporate data mining tools to extract sets of data are called
 - a) independent data mart b) dependent data marts
 - c) intra-entry data mart d) inter-entry data mart.
- 99. GIS stands for

a)Geographic Information System	b)Generic Information System
c)Geological Information System	d)Geographic Information Sharing

100. Number of columns in a table indicates it

a. Domain b. Column

c. Degree

d. Row

SECTION B

- 1. What is the purpose of Database system?
- 2. What are the disadvantages of DBMS?
- 3. Write short notes on ER-Diagram.
- 4. Differentiate Weak and Strong Entity sets.
- 5. What are DML Commands?
- 6. Write short notes on usage of where clause with an example query.
- 7. What is the role of Select Query?
- nologi 8. What is the use of insert command and update command in sql?
- 9. List and give short notes on set operations.
- 10. Differentiate on delete and drop commands in sql.
- 11. What is the use of NULL value Concept?
- 12. What is the role of Default value concept?
- 13. Write short notes on Primary Key concept with suitable example.
- 14. What is Unique key concept?
- 15. Define Foreign key and give an example.
- 16. What is the role of Check Key integrity constraint?
- 17. Write short notes on Renaming Columns with expressions list.
- 18. What is Range Searching?
- Confer on Pattern matching with an example. 19.
- 20. Give brief notes on String Manipulation..
- 21. Give three examples for Sophisticated Queries.
- 22. List and give example queires for Built in functions.
- 23. What is inner join concept in joined relations?
- 24. Differentiate Left Join and Right join n in SQL.
- What is the role of Full Outer Join? 25.
- 26. Confer on Nested Sub Queries with two examples.
- 27. Give short notes on Views in SQL.
- 28. What is a Sequence. Give its role in SQL.
- 29. What are Synonyms in SQL?
- 30. Give short notes on Table Indexes.
- 31. What is a Database Trigger?
- 32. What are the uses of Database Triggers?
- 33. Write short notes on types of Triggers with examples.
- 34. What is a Database trigger applies>Give an example.
- 35. Give the combinations of triggers.
- 36. Confer on keywords and Parameters in Triggers.

- 37. How will you drop a trigger? Give example Query.
- 38. Give the basic of PL/SQL with suitable example.
- 39. What is a Stored Procedure?
- 40. Write short notes on Stored Functions with an example PL\SQL Query.
- 41. Give short note on DSS.
- 42. What is Data Mining?
- 43. What is Spatial Databse?
- 44. What is the role of Geographic Database?
- 45. Give short notes on Multimedia Database.
- 46. Confer on Moility and Personal Database.
- 47. Write short notes on IRS.
- 48. What is DSS? Give short notes.
- 49. What is WWW?
- 50. Write short notes on Default Tabular Reports.

SECTION C

- 1. Differentiate DBMS and RDBMS concepts.
- chnology 2. What is the purpose of Database Systems?Discuss.
- 3. Explain ER Diagram with suitable example and diagrams.
- 4. Discuss on Strong Entity Set.
- 5. Give the Codd's Rules in detail.
- 6. What is Normalization? Discuss its Types with suitable examples.
- 7. List and explain the data types in SQL.
- 8. Expand DML and discuss on its types.
- 9. What is the role of Select Query in detail.
- 10. How are values stored in a table? Discuss.
- 11. Discuss on Null Value Concept and Default value concepts in detail.
- 12. What are the roles of Primary Key Concept and Foreign Key Concept? Discuss.
- 13. How is Unique Key useful in RDBMS?
- 14. Explain Check Key Integrity Constraint with relevant queries.
- 15. How is a Column renamed using Expression list? Give Examples.
- 16. Discuss on various concepts in Pattern Matching with examples.
- 17. What is Range Searching? Explain with suitable queries.
- 18. Discuss on String Manipulation in detail.
- 19. What are the different Date functions available in Oracle? Discuss.
- 20. Discuss on creating Reports with Titles and Headings in detail.
- 21. Give detailed notes on Built in group functions with suitable queries.
- 22. What is a Sophisticated Query? Discuss.
- 23. What is a Joined Relation? Discuss its types.
- 24. What is th role of Nested Sub Query? Give examples.

- 25. Give a PL/SQL code to implement the concept of Views in Oracle.
- 26. What is a View? Explain.
- 27. Explain Sequences in detail with suitable PL/SQL code.
- 28. Explain the role of Synonym with suitable Queries in Oracle.
- 29. What is Table Index? Discuss.
- 30. Give detailed notes on Table Partitioning in Oracle.
- 31. What is a Database Trigger? What are the uses of DB Triggers?
- 32. Discuss on types of Database Triggers.
- 33. How to apply a DB trigger? Discuss.
- 34. What are the different Combinations of Triggers?Discuss.
- 35. Difference between SQL and SQL * Plus Environment. What is the role of Stored Precedure in Oracle? Justify with PL/SQL code.
- 36. How are Stored Functions importanat in Oracle? Discuss.
- 37. Differentiate the concepts of Procedures and Functions in detail.
- 38. Give a PL/SQL code to implement concept of Functions?
- 39. What are the paametersavailable in Procedure. Discuss with PL/SQL code.
- 40. Explain the concepts in Data Mining with suitable diagram.
- 41. Differentitae Spatial and Geographic Database.
- 42. What are Multimedia and Mobility Databases?
- 43. Discuss on DSS with relevant examples.
- 44. Give detailed notes on:
 - i) DSS ii) IRS
- 45. Explain WWW in detail.
- 46. Discuss on PL/SQL Reports in detail.
- 47. Discuss the role of Data Warehousing in detail.
- 48. What is Data Analysis? Discuss.
- 49. What is the role of Default Tabular report in detail.
- 50. Write a detailed note on Triggers.

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KONGUNADU ARTS AND SCIENCE COLLEGE (AUTONOMOUS) COIMBATORE-641029



QUESTION BANK

SUBJECT CODE: 15UIT511 TITLE OF THE PAPER: SOFTWARE ENGINEERING

DEPARTMENT OF INFORMATION TECHNOLOGY

NOVEMBER 2018

KASCII

Prepared by B.KAVITHA Department of Information TECHNOLOGY Kongunadu Arts & Science College, Coimbatore-29.

Kongunadu Arts & Science College (Autonomous) Department of INFORMATION TECHNOLOGY Question Bank SOFTWARE ENGINEERING CONTENTS

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Section -A

 What is the collection of programs written to service other programs? a) Embedded Software b) Business Software c) Real-time Software d) System Software 	
2) Which provide the technical how-to's for building software?a)Methodsb) Toolsc)Processd) Quality focus	
3) Which phase focuses on change associated with error correction and adaptationsa) Definition b) Development c) Deployment d) Support	\$?
4) Which characteristics of KPA specify the task required to achieve the functions a) Abilities b) Activities c) Goals d) Commitments	?
 5) Which stage of software development delivers the results? a) Status quo b) Problem definition c) Technical development d) Solution Integration 	
 6) Which traceability table mindicates how requirements are related to one another a) Features traceability b) Source traceability c) Dependency traceability d) Interface traceability 	:?
7) What is the symbol used for representing external entities in SCD?a) Box b) Arrowc) Circled) Rounded rectangle	
8) The task that bridges the gap between system level requirements and software design is calleda) Requirement analysis (b) Requirement elicitation (c) Design (d) Coding	
 9) What is used to determine the value of each function that is required for the systematic a) Information Deployment b) Function Deployment c) Task Deployment d) Value analysis 	æm?
10) Which requirements are implicit to the product or system?a) Normalb) Expectedc) Excitingd) Optional	
11) What type of prototyping is the throw-away paradigm?a) Open-ended b) Close-ended c) Front-ended d) Back-ended	
 12) Which technique encompasses a broad array of database query and reporting la a) Formal Specification b) Prototyping environment c) Reusable Software components d) Fourth generation techniques 	nguages?
 13) The specification that examines the operation of the software as a consequence events is called a) Functional decsription b) Behavioral description c) Information decsription d) Validation criteria 	of external

8	Which provides detailed description of the problem?a) Functional decsriptionb) Behavioral descriptionb) Information decsriptiond) Validation criteria
C	Which is the technique that translates the need of the customer into technical requiremen of the software? a) QFD b) FAST c) Use case d) Prototyping
,	How many areas are there in software requirement analysis? a) Five b) Four c) Three d) Six
	What are the models of requirement analysis? a) Data c) Functional c) Behavioral d) All the above
	What must be conducted to enable the software to serve the needs of its end user? a) Correction b) Adaptation c) Enhancement d) Prevention
C	In which process maturity level the details of the software process and product quality are collected? a) Managed b) Defined c) Initial d) Repetable
20)	At which process maturity level the peer reviews are conducted? a) Level 4 b) Level 5 c) Level 3 d) Level 2
S	Which contains the description of all data objects consumed or produced by the software? a) Data dictionary b) Data c) Database d) Data object
	Which of the following defines the property of a data object? a) Data dictionary b) Data object c) Attributes d) Relationships
ľ	What is used for specifying the number of occurrence of one object related to number of occurrence of another object? a) Cardinality b) Modality c) Relationship d) Attributes
24)	What value is used if an occurrence of the relationship is mandatory? a) 0 b) 1 c) 2 d)-1
	What symbol is used to represent the process in information flow model? a) Rectangle b) Circle c) Arrow d) Double line
	What does a level 0 DFD is called? a) Data flow diagram b) Context model c) Data flow graph d) Bubble chart
8	What symbol is used to represent time-continuous flow?a)Dashed arrowb) Single headed arrowb) Double headed arrowd) Double line
8	What symbol is used to represent the control flow?a) Dashed arrowb) Single headed arrowc) Double headed arrowd) Double line
	4

29) What is occurred when a data input to a process result in control output?a) Control output b) Control input c) Data output d) data condition
30) What is the other name used for first entry is called?a) Nameb) Contentc) Aliasd) Supplementary
31) Using which the information enters into the system?a) Incoming flow b) Outgoing flow c) Transform d) Transaction
32) What does a hub from which many action paths emanate is called?a) Incoming flow b) Action path c) Outgoing flow d) Transaction center
33) What model is established by the human engineer?a) Deign model b) User model c) System image d) System perception
34) What does an implementation of system creates?a) Deign model b) User model c) System image d) System perception
35) User with no syntactic knowledge but with little semantic knowledge is called asa) Novices b) Intermittent c) Frequent d) Knowledgeable
36) User with good semantic and syntactic knowledge is calleda) Knowledgeableb) Intermittentc) Frequentd) both (a) and (b)
 37) Which defines the set of interface objects and actions? a) Interface validation b) Interface construction c) Interface design d) Analysis & Modeling
38) Which refer to the deviation from average response time?a) Helpb) Variabilityc) Lengthd) Information handling
39) Which is the representation of application specific data?a) Source object b) Target object c) Application object d) None
40) Using which the process activated by a given event can be identified?a) CSPECb) PSPECc) CFDd)PAT
41) Which layer contains the design details that enable each object to communicate with its collaborators?
a) Subsystem layerb) Class and Objectc) Message layerd) Responsibilities layer
42) The degree to which a design method ensures that program once built can be reused to create another system is calleda) Composability b) Decomposability c) Protection d) Continuity
43) Using which concurrent tasks are defined?a) State diagramb) CFDc) DFDd) PSPEC
44) Which task template is used for invoking the object behavior?a) Task name b) Priority c) Services d) Coordinates by

 45) Which design method transforms information domain model into the data structure? a) Data design b) Interface design c) Component-level design d) Architectural design 	
46) Which design method transforms structural elements of the software into a procedural description?	
a) Data design c) Component-level design d) Architectural design	
 47) When a design method provides a systematic mechanism for decomposing the problems into subproblems it is called. a) Modular Decomposability b) Modular Composability c) Modular Continuity d) Modular Protection 	
c) Modular Continuity d) Modular Protection	
48) Which is the named sequence of instructions that has a specific and limited function?a) Procedural Abstractionb) Data Abstractionc) Control Abstractiond) Superconjunction	
c) Control Abstraction d) Synchronization	
49) What is the process of measuring number of modules that are directly controlled by another module is called?	
a) Fan-in b) Fan-out c) Depth d) Width	
50) Vertical Partitioning is also called a) Factoring b) Controlling c) Conditioning d) Expanding	
51) When all processing elements concentrate on one area of datastructure it is called as	
a) Temporal cohesion b) Communicational cohesion	
c) Procedural cohesion d) Logical cohesion	
52) When a processing elements of a module are related and must be executed in a specific order it is called as	
a) Temporal cohesion b) Communicational cohesion	
c) Procedural cohesion d) Logical cohesion	
53) What coupling occurs when one module makes use of data or control information maintained within the boundary of another module?	
a) Content b) Common c) Control d) External	
54) Using which the number of modules that are directly controlled by a given module is identified?	
a) Fan-in b) Fan-out c) Span of control d) Depth	
55) A module that control another module is called	
55) A module that control another module is called a) Subordinate b) Superordinate c) Connectivityd) Visibility	
56) What type of coupling occurs when a number of modules refer a global data area?a) Contentb) Commonc) Controld) External	
57) What type of coupling occurs when a portion of data structure is passed through a module interface?	
a) Stamp b) Data c) Control d) External	

58) What is the Process of Elaboration?a) Abstraction b) Refinement c) Modularity d) Control Hierarchy
59) Which is also called Program Structure?a) Abstractionb) Refinement c) Modularity d) Control Hierarchy
 60) Which aspects of architectural design represent the components of a system? a) Structural Properties b) Functional Properties c) Related Systems d) Extra-functional Properties
61) What is the objective of Testing?a) Uncover Errorsb) Cover Errorsc) Fault finding d) Debugging
62) Which is not a characteristic of Testing?a) Operability b) Observability c) Controllability d) Conditionality
63) Which is also called as Glass-box Testing?a) Unit Testing b) White-box Testing c) Control Testing d) Black-Box Testing
64) What is the process of introducing atleast one new set of processing statements is called?a) Path b) Length c) Dependent path d) Independent path
65) Which is the type of White-box testing?a) Stress Testing b) Basis-path Testing c) Control Testing d) Black-Box Testing
66) What is the notation used for representing a control flow?a) DFDb) CFDc) Flow graphd) Tree
67) What does an arrow on a flow graph is called?a) Areab) Regionsc) Edgesd) Node
68) A node containing a condition is calleda) Pathb) Processc) Predicate noded) Area
69) What is the formula for computing the cyclomatic complexity?a) E-N+2b) E+N-2c) E-N+1d) E+N-1
70) What is the value of the link weight in graph matrix, if connection exists?a) 1b) 0c)2d)-1
71) What does an areas bounded by edges and node is called?a) Edgeb) Regionsc) Aread) Boundary
 72) The testing used for finding incorrect or missing functions is called a) Basis path Testing b) White-box Testing c) Control Testing d) Black-Box Testing
 73) What type of testing does a Loop testing belongs to? a) Basis path Testing b) White-box Testing c) Control Testing d) Black-Box Testing

74) What is used to describe the property of a node?a) Linksb) Objectsc) Node weightd) Link weight
 75) What is the link used for representing the relationship in both directions? a) Symmetric Link b) Parallel Link c) Unsymmetric Link d) Directed Link
76) What is used to represent a set of valid or invalid states of input conditions?a) Equivalence Classb) BVAc) Linkd) Weight
 77) Which is also called Back-to-Back Testing? a) Comparison Testing b) Eqivalence Testing c) Graph-Based Testing d) Orthogonal Array Testing
 78) What testing is used for finding errors asociated with region faults? a) Comparison Testing b) Eqivalence Testing c) Graph-Based Testing d) Orthogonal Array Testing
 79) What testing technique is used for finding errors at the boundaries of the input domains? a) Comparison Testing b) Eqivalence Testing c) Boundary Value Analysis d) Orthogonal Array Testing
80) How many classes of loops are there? a) 1 b) 2 c) 3 d) 4
81) What refers to a different set of activities that ensure that software has been built is traceable to customer requirements?a) Verification b) Validation c) Testing d) Debugging
82) What refers to the set of activities that ensure that software correctly implements a specific function?a) Verification b) Validation c) Testingd) Debugging
83) Which task does testing belongs to?a) Constructiveb) Destructive c) Adaptived) Appreciative
84) Which test begins at the vertex of the spiral?a) Unit Test b) Integration Test c) Validation Test d) System Test
85) Which testing is used for testing software and other system elements as a whole?a) Unit Test b) Integration Test c) Validation Test d) System Test
86) What is the important element of validation process?a) Function b) Review c) Quality d) Configuration review
87) Which test is conducted at developer's site by a customer?a) Alpha Test b) Unit Test c) Beta Test d) System Test

- 88) Which test is conducted at one or more customer's site by end user of the software?a) Alpha Test b) Unit Test c) Beta Test d) System Test
- 89) Which testing forces software to fail in variety of ways?a) Recovery Testb) Security Test c) System Test d) Stress Test
- 90) What is the variation of Stress testing?a) Sensitivity Test b) Stress Test c) System Test d) Recovery Test
- 91) What occurs as a consequence of successful testing?a) Debugging b) Verification c) Validation d) Testing
- 92) Which method is the most common and least efficient for isolating software errors?a) Backtracking b) Brute force c) Cause elimination d) None
- 93) Which approach introduces the concept of binary partitioning?a) Backtracking b) Brute force c) Cause elimination d) None
- 94) Which is evaluated by measuring the frequency and severity of failure?a)Functionality b) Reliability c) Usability d)Supportability
- 95) Which is assessed by evaluating the feature set and capabilities of the program?a) Functionality b) Reliability c) Usabilityd) Supportability

96) Which is the most common	type of Reenginerring?	
a) Code Restructuring	b) Data Restructuring	
c) Forward Engineering	d) Reverse Engineering	
97) Forward Engineering is also called		
a) Revocation b) Renovat	ion c) Restructure	d) Reciprocal
98) Which services provides a bridge between CASE tools		and their integration
framework and the environment architecture?		

a) Portability services	b) Operating Systems
c) Hardware Platform	d) Framework

99) Using which tool potential risks are identified?

a) Risk Analysis	b) Project Management
c) Process Modeling	d) Management

- 100) Which tool is used to acquire data to be used during testing?
 - a) Data Acquisition b) Static Measurement
 - c) Test Management d) Dynamic Measurement

SECTION B

1) What is Software and Software Engineering?

2) What is the Evolving role of the Software?

3) List out the Software Applictions.

4) List out the Umberella Activities.

5) Write short note on Software Process Models.

6) Discuss about the Prototyping Model.

7) Discuss about QFD.

8) Write short note on Requirement Analysis

9) How to select the Prototyping Approach?

10) Discuss about Requirement management.

11) Discuss about the Elements of Analysis model?

12) Write short note on Cardinality and Modality.

13) Define Data Dictionary along with its information.

14) Discuss about Control Specification.

15) Discuss about Process Specification and Process Activation Table.

16) Write short note on Control Flow Model.

17) How to map Requirements into software Architecture?

18) Write short note on Design issues in Interface Design.

19) Write a brief note about the User Interface design process.

20) What is attribute and Relationship?

21) List out the layers of OO Design Pyramid.

22) Difference between Conventional and OO Approaches.

23) Write short note on Intersubsystem communication.

24) Discuss about Design Principles.

25) Explain about the Evolution of Software design.

26) Write a brief note on Abstraction.

27) Give a brief note about Control Hierarchy.

28) List out the set of Design Heuristics.

29) Write short note on Datastructures.

30) Write short note on software Archirecture.

31) List out the Testing Principles.

32) What are the objectives of Testing?

33) Discuss about White box testing.

34) Write short note on Flow graph notation.

35) Give brief note on Graph Matrices.

36) Discuss about Data Flow Testing.

37) How many Loop Testings are there?

38) Discuss about Comparison Testing.

39) Write short note on Boundary Value Analysis.

40) Define Orthogonal Array Testing.

41) Difference between Verification and Validation.

42) Give a brief note about the Software testing strategy.

43) Differenciate between Alpha testing and Beta Testing.

44) What is the process of Debugging?

45) List out McCall's Quality Factors.

46) Discuss about FURPS Quality Factors.

47) Discuss about Building Blocks for CASE tools.

48) Write short note on Reverse Engineering.

49) How to understand Reverse Engineering Processing?

50) What are the Approaches for debugging?

SECTION-C

1) List out the Software characteristics in detail.

2) Explain about different Software myths in detail.

3) Illustrate about the Software Engineering a Layered Technology.

4) Discuss in detail about Software process

5) Give a brief note about Requirement Elicitation and Requirement Specification.

6) Explain the concept of System modelling in detail.

7) What are the steps involved in Requirement Elicitation? Explain in detail.

8) Discuss about Software Prototyping in detail.

9) Explain about Specification in detail

10) Explain in detail about Requirement validation and Requirement Management.

11) Explain in detail about Data Modeling.

12) Discuss in detail about Data Flow Diagram.

13) How Ward and Mellor have extended the DFD for Real-time Systems?

14) Discuss about Hatley and Pirbhai extension in detail.

15) How to create an Entity/ Relationship diagram? Explain in detail.

16) Discuss about Transform Mapping in detail.

17) Discuss about Transaction Mapping in detail.

18) Explain in detail about User Interface Design.

19) Discuss about Interface Design in detail.

20) How to create a Data flow model and Control flow model.

21) Explain in detail about OO Design Issues

22) Explain in detail about An Unified approach to OOD.

23) Discuss about the System design Process.

24) Briefly explain the concept of Concurrent and Subsytem Allocation.

25) Explain the concept of the Task Management and Resource Management in detail.

26) Illustrate in detail about Software design and Software Engineering.

27) Discuss in detail about the concepts of Modularity.

28) Listout the types of Cohesion and Coupling in detail.

29) What is meant by Effective Modular Design? Explain in detail.

30) Explain in detail about any four Design Concepts.

31) Discuss in detail about Software Testing Fundamentals.

32) Explain the concept of Testability in detail.

33) Explain about Basis Path testing in detail.

34) How to calculate Cyclomatic Complexity? Explain in detail.

35) How to derive a test case? Explain in detail?

36) Illustrate in detail about Control structure Testing.

37) Discuss about Conditional Testing in detail.

38) What is meant by Graph based testing methods? Explain in detail.

39) Briefly explain the concepts of Equivalence Partitioning and Boundary Value Analysis.

40) What does a Black-box Testing attempts to test? Explain in detail.

41) Discuss about the Strategic Approach for Testing in detail.

- 42) Explain about Validation Testing in detail.
- 43) In detail explain about System Testing.
- 44) What is the Art of Debugging? Explain in detail.
- 45) Discuss about Software Quality Factors in detail.
- 46) Illustrate the concept of Software Reengineering in detail.
- 47) Explain about Reverse Engineering in detail.
- 48) What is meant by a Software Reengineering process model? Explain in detail.
- 49) How Reverse Engineering can be used to understand Process, Data and User Interfaces? Explain in detail.
- 50) Explain in detail about the taxonomy of CASE tools.

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ANSWER KEYS FOR SECTION A:

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38) B 39) C 40) D 41) C 42) A 43) A			
39) C 40) D 41) C 42) A 43) A	•		
40) D 41) C 42) A 43) A			
41) C 42) A 43) A	,		
42) A 43) A	40)		
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	42)	Α	
	43)	Α	

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93)	С
9 4)	B
95)	Α
96)	Α
97)	B
98)	Α
99)	Α
100)	Α

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KONGUNADU ARTS AND SCIENCE COLLEGE (AUTONOMOUS) **COIMBATORE - 641 029**



QUESTION BANK

SUBJECT CODE: 17UIT408 . 17 . A: VISU . AFORMATIC JANUARY 2019 TITLE OF THE PAPER: VISUAL BASIC .NET **DEPARTMENT OF INFORMATION TECHNOLOGY**

Prepared by **B.KAVITHA Department of Information TECHNOLOGY** Kongunadu Arts & Science College, Coimbatore - 29.

Kongunadu Arts & Science College (Autonomous) **Department of INFORMATION TECHNOLOGY Question Bank** nology VISUAL BASIC.NET

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	1	Section A	3
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	3	Section C	10
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4	Scimor	mali	

SECTION - A

	Which application rur a. Windows			Console
	What does a CLR's in			
	a. IL			L or MSIL
			re used to implement A	
	veb server application		ie used to implement A	SI .Ivet security in
			c. System.web.service	es d System security
	•	• •	at run time will appear	•
	-		lorer c.Component tra	
	•	-	declaration of the varia	•
	hey are used?			
	•	ion Explicit c.	Option Compare d. (Option Strict
	Which keyword is use	-		
:	a. Dim	b. Redim	c. private	d. Public
7.	Which operator is us	ed to perform Integ	ger division?	
ä	a. /	b. \	c. %	d. \\
8. V	Which operator is use	d to perform patter	n matching?	
i	a. Is	b. AddressOf	c. GetType	d. Like
9. V	Which operator has hi			
	a. Modulus	b. Disjunction		d. Exponentiation
10. V			he number choices base	
	a. Select case	b. Switch	c. Choose	d. For Each
11. V			sions and return an obje	
	a. Select case	b. Switch	c. Choose	d. For Each
	Which function is use	-		
	a. TimeOfDay			DateDiff
		-	elements in an array?	1 3371-11-
	a. Do	b. For	c. For Each Next	d.While
	a. Do	b. For	condition remains true c. For Each Next	d.While
			ment using a particular	
	a. Import	b. Export	c. With	d. Declaration
	-	*	of the string to the proc	
	a. ByVal	b. ByRef	c. ParamArray	d. ByArray
	•	-	ion of variable to the pr	• •
	a. ByVal	b. ByRef	c. ParamArray	d. ByArray
	5	•	vailable only to the cod	
	lass or structure?		-	
ä	a. Block scope	b. Procedure scop	e c. Module scope	d. Namespace
	scope			

10				
19.	-	idling specifies the loca	ation of the exception	handling code
	within a procedure?			
	a. Structured	b. Unstructured	c. Exceptional	-
20.	Which block is alway		ution leaves any part of	of the try statement?
	a. Try	b. Catch	c. Finally	d. Throw
21.	What does a main are	ea of a form is called?		
	a. Client area b. Ser	ver area c. Cer	nter area d. For	rm area
22.	Which class property	holds the currently ac	tive form for the entire	e applications?
	a. Active form	b. Active control	c. Auto scale	d. Accept button
23.	What property is set	to true for setting contr	rol tab order?	
	a.TabStop	b. TabIndex	c. Focus	d. Location
24.	Which value specifie	s the AbortRetryIgonr	e button?	
	a. 0	b. 1	c. 2	d. 3
25.	In which position the	input box is displayed	l if the xpos is omitted	?
	-		ertically c. Horizontal	
26.			ouse pointer enters the	
	a. Mouse down	b. Mouse enter	c. Mouse move	d. Mouse leave
27.	Which symbol is use	d to represent Mnemor		
	a. @	b. \$	c. &	d. *
28.		t to make a textbox loc		
201			ow c. Backcolor=flat d	Backcolor=style
29		t to make a label box le		Ducheolor segle
27.			ow c. Backcolor=flat d	Backcolor=style
30		nk label is used to crea		. Duckeolor-style
50.	a. LinkArea	b. ActiveLink	c. LinkClicked	d. LinkColor
31		d to divide a form into		u. Linkcoloi
51.			c. Check box	d. Radio buttons
32			nd does not have scroll	
52.	a. Panels	b. Group box	c. Check box	d. Radio buttons
33		d to transfer the focus		u. Radio buttons
55.	a. Set	b. Get	c. Link	d. Focus
24			is used to make a chec	
54.	-	operty of a check box	is used to make a chec	k box appears in a
	gray background?	h. Umahaalaad	o. Closed	d Indotominato
25	a. Checked	b. Unchecked	c. Cleared	d. Indeterminate
35.		ed to turn the radio but		
	a. Appearance=butt	-	ppearance=flat	
26	c. Appearance=norm	1.	pearance=bordered	
36.		rns the object correspondence	-	
	a. SelectedIndex	b. SelectedIndices	c.SelectedItem	d. SelectedItems
37.		-	t corresponds to the se	
20	a. SelectedIndex	b. SelectedIndices	c.SelectedItem	d. SelectedItems
38.		d to get the index of an		
	a. IndexOf	b. SelectedIndex	c. SelectedIndices	d. SelectedItem
				4

20	Which drondown sty	le property allows sele	ating only from the dr	on down list?
59.	a. Drop Down	b. Drop Down list	• •	d. Simple
40	1	-		1
40.	_	pperty of a picture box	-	-
41	a. Normal	b. AutoSize	c.StretchImage	d. CenterImage
41.		ggered when the scroll		
	a. Value changed		c. Value	d. Moved
42.		ange of the scroll bar?		
	a. 0-100	b. 0-50	c. 0-10	d. 0-1000
43.	Which property of th	e splitter is used to set	the cursor that appears	s with the splitter?
	a. Enabled	b. Hsplit	c. Vsplit	d. Cursor
44.	Which event of the s	plitter triggers when th	e splitter has moved?	
	a. Splitter Moved	b Splitter Moving	c. Split Moved d.	Splitter Movable
45.	Which property spec	ifies the distance betwe	een ticks?	
	a. Tick Frequency	b.Tick Style	c. Tick Size	d. Tick
46.	Which property sets	the foreground color of	f the calendar trailing c	lates?
	a. Calendar forecol	or	b. Calendar Trailing	forecolor
	c. Calendar Title for	ecolor	d. Calendar Month fo	orecolor
47.	Which item is used t	o represent two-digit m		
	a. MM	b. mm	c. MM/DD	d.MM/DD/YY
48.	Which property of no	otify icon is used to set		windows system
	tray?			j
	a. Icon	b. Text	c. Context menu	d. Visible
49.		e tooltip gets the time		
	a. Automatic Delay		c. Show Always	d. Active
50	•	the time between timer	•	
201	a. Enabled	b. Interval	c. Start	d. Stop
51		when the timer interval		u. stop
011		b. Start	c. Stop	d. Enabled
52		d to create a menu sepa	1	d. Lindoled
52.	a	b.	c. =	d. &
53		ed to set the current fil		u. œ
55.	a. Filter	b. Filter Index	c. Default Ext	d. Add Extensions
54				
54.	a. PrintToFile	whether the print to file	c. AllowPrintToFile	
55		b. Printer settings	c. AllowPhiltToFile	u. ShowFillit
55.		the next visible node?	· I.F	J. NT 437'- 'L-1-NT J.
FC	a. IsVisible	b. IsSelected	1	d. NextVisibleNode
50.		s when an item is chec		
	a. ItemCheck	b. ItemActivate	c. ColumnClick	d. SelectedIndex
57.		displays a toggle butte		
	-	on b. Push Button		-
58.		the collection of the st		
	a. Panels	b. Show Panels	c. Parent	d. Panel Click
59.	-	s a horizontal bar for	-	•
	a. Track bar	b. Status bar	c. Progress bar	d. Tool bar

60.	Which property is se them?	t to change the color of	of the caption as the mo	use moves over
	a. Hot Track	b. Image Index	c. Tooltip	d. Tab pages
61.	Which object genera	tes unique server cont	rol identifier?	
	a. Controls	b. Control Style	c. Control Style Crea	ted d. Client ID
62.	Using which, the we	b server controls are p	ositioned?	
	a. CSS styles	b. CS styles	c. JS styles	d. CS styles
63.	Which property is se is clicked?	t for indicating whether	er validation is perform	ed when the button
	a. CSS Class b. C	Command Name c. C	Command Argument	I.Causes Validation
64.	Which property is se	t to create a password	control for textbox?	
	a. TextMode	b. Password	c.Column	d. ReadOnly
65.	What class is design	ed to store server con	trols to a web page at ru	untime?
	a. PlaceHolder	b.Literal	c. Label	d. Button
66.	Which method binds	the checkbox to the d	lata source?	ク
	a. Dispose	b. DataBind	c. ToString	d. Enabled
67.	Which property sets item?	the field of the data so	ource that provides the	value of each list
	a. Data Value Field	b. Data Source	c. Data Member d.	Data Text Field
68.	Which property sets it?		check box and the table	
	a. Cell Spacing	b. Cell Padding	c. Text Align	d. Repeat Lavout
69.			that the radio button b	
	a. Checked	b. AutoPostBack	c. GroupName	d. Text
70.			tents of a table row are	
	a. Table	b. TableRow	c. TableCell	d. TableColumn
71.	available?		the place of the image	-
	a. Image URL	b. Image Align	c. Alternate Text	d. Image Button
72.	Which property valu	e is set to multiple, for	r enabling multiple sele	ctions?
	a. Selection Mode	b. Selection Index	c. Selection Item	d. Rows
73.	Which property sets	the URL to navigate w	when the hyperlink is cl	icked?
	a. Image URL	b. Navigate URL	c. Target	d. Text
74.	Which event occurs	when the image buttor	n is clicked?	
	a. OnClick b. On	Command c. OnCom	nmandName d. OnCon	nmandArgument
75.	Which HTML server	control class creates	an HTML file upload c	ontrol?
	a. HTML Input File	e b. HTML Input Tex	t c. HTML Form d. H	TML Text Area
76.	Which event occurs	when the value proper	ty changes on the serve	er?
	a. Server Change	b. Server Click c.	Server Clicked d. Ser	over Command
77.	Which property sets	the alternative text to	display if an image can	not be displayed?
	a. ALT	b. SRC	c. Border	d. Align
78.	Which property give	s access to the upload	ed file?	
	a. Accept	b. Size	c. Posted File	d. Hidden File

70	Which displays the linked content in the im	madiata framasat nara	nt?
19.	aBlank bParent	cSelf	dTop
80	Which property sets whether check boxes a	_	-
00.	a. RepeatColumns b. RepeatLayout	c. RepeatDirection	•
Q 1	Which property is used for adding propertie	1	u. Repeatitows
01.		c. ActiveControl	d. Validate
01	1 9		u. vanuale
82.	Which method is used for initializing the us		J. Turstandistics
02		tializeAsUser Control	
83.	Which property indicates if the thread has b		
0.4	a. Start b. Alive	c. Suspend	d. IsAlive
84.	Which method waits for the thread to die of	r for a specific timeout	, given as a
	timespan object, to elapse?		
	a. Sub Join	b. Function Join	
~~	c. Function Join(timeout as integer)		eout as timespan)
85.	Which object is used to work with oracle da		
	a. SQL Connection	b. Oracle Connection	
	c. OLEDB Connection	d. ORCL Connection	1
86.	Which object holds a data table from a data		
	a. Data Table b. Data Relation	c. Data Row	d. Data Column
87.	Which property is used to perform a simple		
	-		d. Display Member
88.	Which property of the datagrid object sets t		
	a. Current Row Index b. Current Cell		Data Source
89.	Which property determines the cell that wa	•	
		c. Data Member d.	Data Source
90.	Which event occurs when the control is do	-	
	a. Validating b. Validation	er (unadrea) al	
91.	Which property gets or sets the field name		
	a. Data Key Field b. Data Text Field c.]		Text Format String
92.	Which column type shows a button for each	h item in the column?	
	a. Bound Column b. Bu	tton Column	
	c. Edit Command Column d. Ter	mplate Column	
93.	Which control creates simple, read-only ou	tput?	
	a. Data Grid b. Data List	c. Repeater	d. Adaptor
94.	Which event occurs when a user clicks a bu	itton that doesn't have	a predefined
	command?		
	a. Edi Command b. Update Command	c. Delete Command	d. Item Command
95.	Which property gets the number of items for	or custom paging?	
	a. Selected Item b. SelectedIndex c. S	electedItemStyle d.	VirtualItemCount
96.	Which Priority thread has a highest priority	?	
	a. Below Normal b. Normal	c. Highest	d. Above Normal
97.	Which method is used to stop the thread?		
	a. Stop() b. Abort()	c. Resume()	d. Suspend()

98. [°]	8. Which is the primary data access and manipulation protocol?					
i	a.	ADO.NET	b. ODBC	c. OLEDB	d. ADODC	
99. [°]	99. Which object starts a connection with the database?					
:	a.	Data Connection	b. Data Adaptors	c. Command	d. Constraint	
100. Which object loads only a subset of a dataset?						
;	a.	Data View	b. Data Grid	c. Data Table	d. Data Row	

SECTION - B

1.	Discuss	about	the	System	Names	pace.
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- 2. Write short note on the Intellisense feature of the VB.NET.
- 3. Discuss about Visual Basic Statements.
- 4. How the Variables are declared in VB.NET?
- 5. Difference between Arrays and Dynamic Arrays.
- 6. Discuss about String Handling functions and methods.
- 7. Difference between the Switch and Choose Function.
- 8. Different types of Scopes in VB.NET.
- 9. Discuss about the Unstructured Exception Handling.
- 10. Give a brief note on For Each....Next Loop.
- 11. Difference between Textbox and Richtextbox.
- 12. Discuss about Linklabels.
- 13. Write short notes on Buttons control.
- 14. Difference between Panels and Groupbox.
- 15. Briefly discuss about Picture box control.
- 16. How to create the Control Array in VB.NET?
- 17. List out the Mouse Events
- 18. List out some of the Keyboard Events.
- 19. Write short note Labels.
- 20. Give a brief note on MDI Form.
- 21. Write short note on Splitters.
- 22. Discuss about Trackbars.
- 23. Write short note on Notify Icons.
- 24. Discuss about Tooltip control.
- 25. Briefly discuss about Timer control.
- 26. How to create Submenus and Separators?
- 27. How to create MDI Window Menus?

- 28. Give a brief note on Progress bar.
- 29. Discuss about the Tab control.
- 30. Write short note on Status bar.
- 31. How to set a Control style and Move the Controls?
- 32. How to set Control Fonts and Border Style?
- 33. How to create Command Buttons?
- 34. Discuss about Labels.
- 35. Write short note on Literal Class.
- 36. Discuss about List Control and list Item Class. rechnology
- 37. How to create Panels?
- 38. Give a brief note on Drop Down List.
- 39. Discuss about Hyperlinks.
- 40. Briefly discuss about HTML Form.
- 41. How to create User Control?
- 42. How to create Web Controls?
- 43. How to create Threads?
- 44. List out the most common ADO.NET Objects.
- 45. Discuss about the process of creating Dataset.
- 46. How to add records to a Dataset?
- 47. How Data Validation is performed?
- 48. How to create Data Views?
- 49. Discuss about the thread States
- 50. How to customize Data Grids?

SECTION - C

- 1. How to put a visual basic to work? Explain in detail.
- 2. Explain in detail about the .NET Framework and the Common Language Runtime.
- 3. How to build VB.NET applications? Explain in detail.
- 4. Explain in detail about any 4 types of servers.
- 5. Discuss about different types of Data types in detail.
- 6. Give a detailed note about visual basic .NET operators.
- 7. Discuss in detail about Decision making statements.
- 8. Explain in detail about Looping statements.
- 9. Illustrate in detail about the concepts of Subroutines.
- 10. Explain in detail about Functions in detail.
- 11. Illustrate in detail about Windows forms Methods, Events, Properties.
- 12. Discuss in detail about the RichTextBox.
- 13. Elaborate in detail about Check Boxes.
- 14. Explain in detail about Combo Boxes.
- 15. Explain in detail about List Boxes.
- 16. Discuss in detail about the Msg Box and Input Box with an example.
- 17. Illustrate about Textbox in detail
- 18. Discuss in detail about the Checked List Boxes.
- 19. Explain in detail about the Radio Buttons.
- 20. Difference between Radio Buttons and Check Boxes. Explain in detail.
- 21. Illustrate about Date Time Pickers in detail.
- 22. Explain in detail about Scroll Bars.
- 23. How to create Menus? Explain in detail.
- 24. How to create MDI Menus? Explain in detail.
- 25. Discuss about Dialog boxes in detail.
- 26. Discuss in detail about the Open, Save and Print dialog boxes.
- 27. Discuss in detail about List View.
- 28. Discuss in detail about Tree View.
- 29. Illustrate in detail about Image list
- 30. Explain in detail about Tool Bar.
- 31. Explain in detail about the Text Box.
- 32. Discuss about the Check Boxes in detail.
- 33. Illustrate in detail about Radio Buttons.

- 34. Explain in detail about Table Class.
- 35. Discuss about the Image Controls and Image Buttons.
- 36. Explain in detail about List Box.
- 37. Discuss about Hyperlinks and Link Button in detail.
- 38. Discuss in detail about the HTML Input Text and HTML Text Area.
- 39. Explain in detail about the HTML Table Class, Table Row and Table Cell.
- Explain about the HTML Button, HTML Input Button, and HTML Input Button. Image.
- 41. How to create User control, add properties, methods, events ant Test them?
- 42. How to create Web User control, add properties, methods, events ant Test them?
- 43. Discuss about the concept of Starting, Stopping, Sleeping and Suspending the Threads.
- 44. How to access Data with the Server Explorer? Explain in detail.
- 45. How to access data with Data Adaptors and Data Sets? Explain in detail.
- 46. How to Navigate in Datasets? Explain in detail.
- 47. Discuss about Simple and Complex Binding in detail.
- 48. Discuss in detail about the concept Data Grid and how to bind Data Grids?
- 49. Discuss in detail about Database Access in Web Applications.
- 50. Explain in detail about the concept Data access with ADO.NET.

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