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This is to certify that this dissertation entitled **"A STUDY ON IRREGULAR COLORING OF SOME GRAPHS"** submitted to **KONGUNADU ARTS AND SCIENCE COLLEGE** (Autonomous), affiliated to the Bharathiar University, in partial fulfilment of the requirements for the award of the Degree of Master of Science in Mathematics, is a record of original work done by **Ms. R. SANGAMITHRA** during the period 2018 - 2019 of her study in the Department of Mathematics, Kongunadu Arts and Science College (Autonomous), Coimbatore, under my supervision and the dissertation has not formed the basis for the award of any Degree / Diploma / Associate ship / Fellowship or other similar title to any candidate of any University.

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This is to certify that this dissertation entitled "A STUDY ON NANO ψ-CLOSED SETS AND NANO ψ-CONTINUOUS IN NANO TOPOLOGICAL SPACES" submitted to **Kongunadu Arts and Science College** (Autonomous), affiliated to the Bharathiyar University, in partial fulfilment of the requirements for the award of the Degree of **Master of Science in Mathematics**, is a record of original work done by **B.ADHIRA** during the period 2018–2019 of her study in the **Department of Mathematics**, Kongunadu Arts and Science College (Autonomous), Coimbatore, under my supervision and the dissertation has not formed the basis for the award of any Degree/ Diploma/ Associateship/ Fellowship or other similar title to any candidate of any University.

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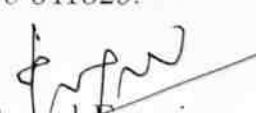
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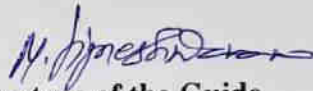Coimbatore - 641 029. TN. India

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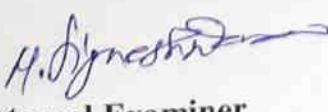Kongunadu Arts & Science College
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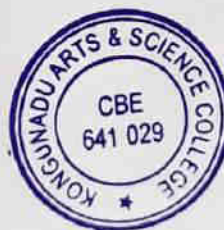
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This is to certify that this dissertation entitled "A STUDY ON FREQUENCIES IN NANOPLATES" submitted to KONGUNADU ARTS AND SCIENCE COLLEGE (Autonomous), affiliated to the Bharathiar University, in partial fulfilment of the requirements for the award of the Degree of Master of Science in Mathematics, is a record of original work done by Ms. A. SIVA PRIYANKA during the period 2018 - 2019 of her study in the Department of Mathematics, Kongunadu Arts and Science College (Autonomous), Coimbatore, under my supervision and the dissertation has not formed the basis for the award of any Degree / Diploma / Associate ship / Fellowship or other similar title to any candidate of any University.

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This is to certify that this dissertation entitled "A STUDY ON DYNAMIC CHROMATIC NUMBER OF CROSSED PRISM GRAPH FAMILIES" submitted to KONGUNADU ARTS AND SCIENCE COLLEGE (Autonomous), affiliated to the Bharathiar University, in partial fulfilment of the requirements for the award of the Degree of Master of Science in Mathematics, is a record of original work done by Ms. M. MOUNISHA during the period 2018 - 2019 of her study in the Department of Mathematics, Kongunadu Arts and Science College (Autonomous), Coimbatore, under my supervision and the dissertation has not formed the basis for the award of any Degree / Diploma / Associate ship / Fellowship or other similar title to any candidate of any University.

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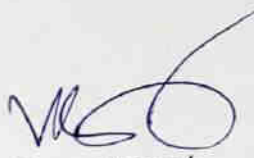ERODE ARTS AND SCIENCE COLLEGE
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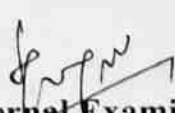Place : Coimbatore

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This is to certify that this dissertation entitled **"A STUDY ON OSCILLATORY AND ASYMPTOTIC BEHAVIOR OF CERTAIN FIRST ORDER LINEAR DIFFERENCE EQUATIONS"** submitted to **KONGUNADU ARTS AND SCIENCE COLLEGE** (Autonomous), affiliated to the Bharathiar University, in partial fulfilment of the requirements for the award of the Degree of Master of Science in Mathematics, is a record of original work done by **MS. V. SREENIDHI** during the period 2018 - 2019 of her study in the Department of Mathematics, Kongunadu Arts and Science College (Autonomous), Coimbatore, under my supervision and the dissertationhas not formed the basis for the award of any Degree / Diploma / Associateship / Fellowship or other similar title to any candidate of any University

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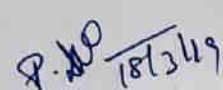Kongunadu Arts and Science College(Autonomous),
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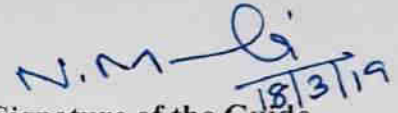
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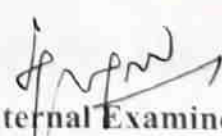Coimbatore - 641 029.

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This is to certify that this dissertation entitled "A STUDY ON OSCILLATORY AND ASYMPTOTIC BEHAVIOR OF CERTAIN SECOND ORDER NON-LINEAR DIFFERENCE EQUATIONS" submitted to KONGUNADU ARTS AND SCIENCE COLLEGE (Autonomous), affiliated to the Bharathiar University, in partial fulfilment of the requirements for the award of the Degree of Master of Science in Mathematics, is a record of original work done by **Ms. R. PRIYADHARSHINI** during the period 2018 - 2019 of her study in the Department of Mathematics, Kongunadu Arts and Science College (Autonomous), Coimbatore, under my supervision and the dissertation has not formed the basis for the award of any Degree / Diploma / Associate ship / Fellowship or other similar title to any candidate of any University.

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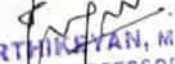Kongunadu Arts and Science College(Autonomous),
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This is to certify that this dissertation entitled "A STUDY ON NANO β GENERALIZED CLOSED SETS IN NANO TOPOLOGICAL SPACES" submitted to KONGUNADU ARTS AND SCIENCE COLLEGE(Autonomous), affiliated to the Bharathiar University, in partial fulfilment of the requirements for the award of the Degree of Master of Science in Mathematics, is a record of original work done by **Mrs. S. SUGANYA DEVI** during the period 2018 - 2019 of her studyin the Department of Mathematics, Kongunadu Arts and Science College(Autonomous), Coimbatore, under my supervision and the dissertation has not formed the basis for the award of any Degree / Diploma / Associate ship / Fellowship or other similar title to any candidate of any University.

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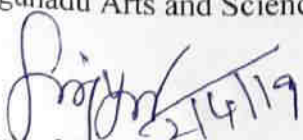
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This is to certify that this dissertation entitled **"A STUDY ON 2-HARMONIOUS COLORING ON SOME GRAPHS"** submitted to **KONGUNADU ARTS AND SCIENCE COLLEGE** (Autonomous), affiliated to the Bharathiar University, in partial fulfilment of the requirements for the award of the Degree of Master of Science in Mathematics, is a record of original work done by **Ms. M. PAVITHARA** during the period 2018 - 2019 of her study in the Department of Mathematics, Kongunadu Arts and Science College

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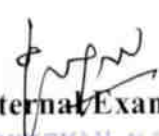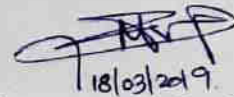Coimbatore - 641 029.

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