

Dr.(Mrs).M. SIVASAKTHI, M.Sc., B.Ed., M.Phil., Ph.D

Head of the Department,

PG & RESEARCH DEPARTMENT OF MATHEMATICS

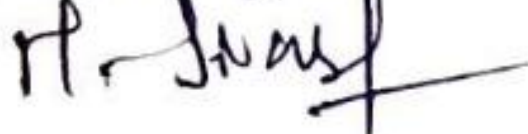
Krishnasamy College of Science, Arts & Management for Women

Anand Nagar, S. Kumarapuram, Nellikuppam Main Road Cuddalore -607109

### CERTIFICATE

This is to certify that the project entitled, **A STUDY ON ROOT SQUARE MEAN LABELING OF GRAPHS** submitted to Thiruvalluvar University in partial fulfilment of the requirement for the award of the degree of Master of science in Mathematics is a record of original research work done by **M. DHAVASELVI(Reg. No. 12020P20001)**, during the period of her study 2020-2022, in the Department of Mathematics, Krishnasamy College of Science, Arts & Management for Women, Annand Nagar, S. Kumarapuram, Nellikuppam Main Road, Cuddalore, under my supervision and guidance. The project has not previously formed the basis for the award of any degree, diploma, associateship, fellowship, or other similar titles.

DATE: 10.06.22



**M. SIVASAKTHI, M.Sc., B.Ed., M.Phil.,**

Assistant Professor,

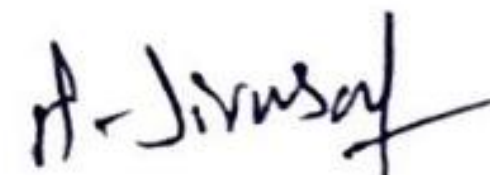
PG & Research Department of Mathematics,

Krishnasamy College of Science,

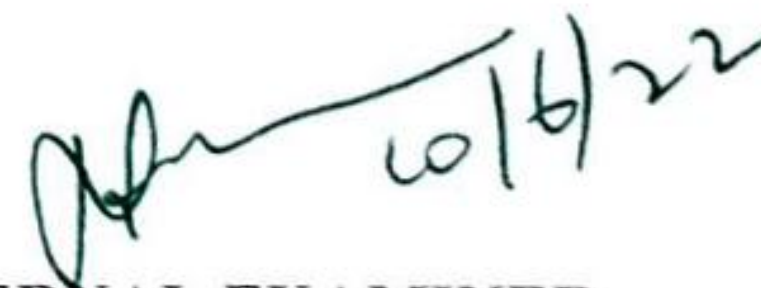
Arts & Management for Women,

CUDDALORE.

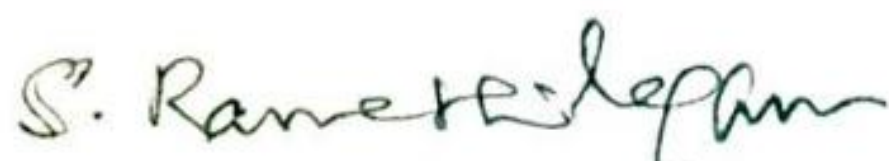
Submitted for the Viva-voce held on..10.06.22.....



GUIDE AND SUPERVISOR



EXTERNAL EXAMINER



EXTERNAL EXAMINER

**Dr. S. RAMATHILAGAM**

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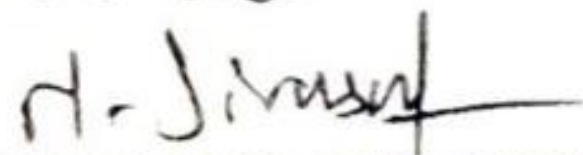
Krishnasamy College of Science, Arts & Management for Women

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This is to certify that the project entitled, **A STUDY ON PRODUCT CORDIAL LABELING OF GRAPHS** submitted to Thiruvalluvar University in partial fulfilment of the requirement for the award of the degree of Master of science in Mathematics is a record of original research work done by **R. GAYATHRI(Reg. No. 12020P20002)**, during the period of her study 2020-2022, in the Department of Mathematics, Krishnasamy College of Science, Arts & Management for Women, Annand Nagar, S. Kumarapuram, Nellikuppam Main Road, Cuddalore, under my supervision and guidance. The project has not previously formed the basis for the award of any degree, diploma, associateship, fellowship, or other similar titles.

DATE: 10.06.22



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Assistant Professor.

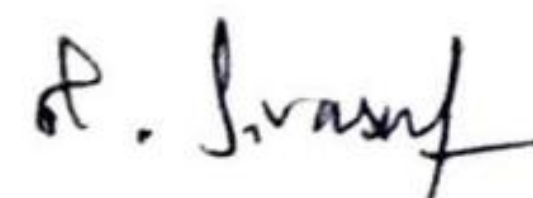
PG & Research Department of Mathematics,  
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Submitted for Cuddalore. ~~Cuddalore~~ held on..10.06.22.....



**EXTERNAL EXAMINER**

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### CERTIFICATE

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DATE: 10.06.22

*M. Sivakshi*

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*M. Sivakshi*

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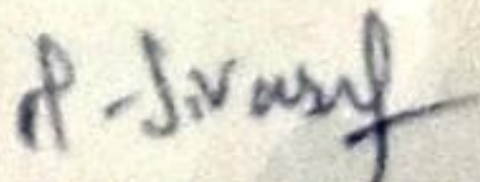
Krishnasamy College of Science, Arts & Management for Women

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### CERTIFICATE

This is to certify that the project entitled, **A STUDY ON EDGE EVEN GRACEFUL LABELLING OF GRAPHS** submitted to Thiruvalluvar University in partial fulfillment of the requirement for the award of the degree of Master of science in Mathematics is a record of original research work done by **G. GUNATHILAGAVATHY** (Reg. No. 12020P20004), during the period of her study 2020-2022, in the Department of Mathematics, Krishnasamy College of Science, Arts & Management for Women, Annand Nagar, S. Kumarapuram, Nellikuppam Main Road, Cuddalore, under my supervision and guidance. The project has not previously formed the basis for the award of any degree, diploma, associateship, fellowship, or other similar titles.

DATE: 10.06.22



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**M. SIVASAKTHI, M.Sc, B.Ed, M.Phil,**

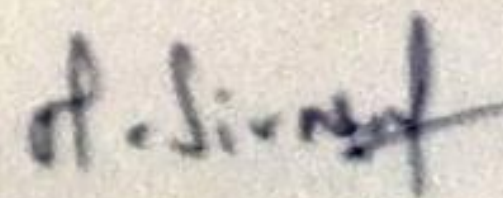
Assistant Professor,

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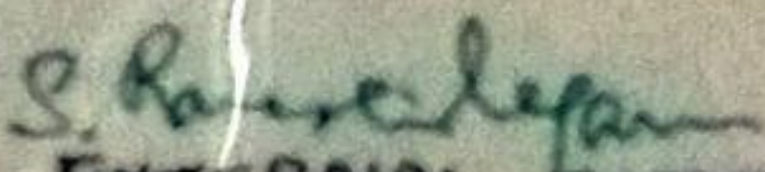
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GUIDE AND SUPERVISOR

Submitted for the viva-voce held on 10.06.22.....



EXTERNAL EXAMINER

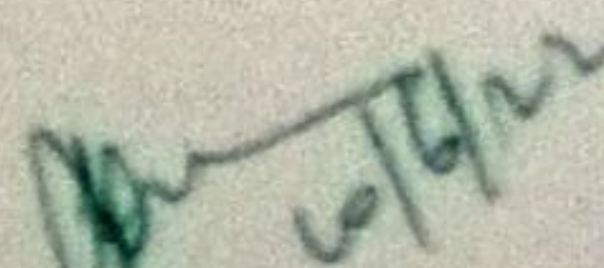
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**CERTIFICATE**

This is to certify that the project entitled, **A STUDY ON EDGE ODD GRACEFUL LABELLING OF GRAPHS** submitted to Thiruvalluvar University in partial fulfillment of the requirement for the award of the degree of Master of science in Mathematics is a record of original research work done by **K. HARITHA (Reg. No. 12020P20005)**, during the period of her study 2020-2022, in the Department of Mathematics, Krishnasamy College of Science, Arts & Management for Women, Annand Nagar, S. Kumarapuram, Nellikuppam Main Road, Cuddalore, under my supervision and guidance. The project has not previously formed the basis for the award of any degree, diploma, associateship, fellowship, or other similar titles.

DATE: 10.06.2022

*M. Sivasakthi*

**HEAD OF THE DEPARTMENT**

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*P. Srinivas*

**GUIDE AND SUPERVISOR**

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*Dr. R. Thenmozhy*  
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**CERTIFICATE**

This is to certify that the project entitled, **A STUDY ON TOTAL LABELLING OF SOME GRAPHS** submitted to Thiruvalluvar University in partial fulfillment of the requirement for the award of the degree of Master of science in Mathematics is a record of original research work done by **S. HEMALATHA (Reg. No. 12020P20006)**, during the period of her study 2020-2022, in the Department of Mathematics, Krishnasamy College of Science, Arts & Management for Women, Annand Nagar, S. Kumarapuram, Nellikuppam Main Road, Cuddalore, under my supervision and guidance. The project has not previously formed the basis for the award of any degree, diploma, associateship, fellowship, or other similar titles.

DATE: 10.06.2022

*A. Sivasakthi*

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Submitted for the viva-voce held on... 10.06.2022.

*S. Ramathilagam*

**EXTERNAL EXAMINER**

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### CERTIFICATE

This is to certify that the project entitled, **A STUDY ON HARMONIC MEAN LABELING OF GRAPHS** submitted to Thiruvalluvar University in partial fulfilment of the requirement for the award of the degree of Master of science in Mathematics is a record of original research work done by **J. HEMAMALINI**(Reg. No. 12020P20007), during the period of her study 2020-2022, in the Department of Mathematics, Krishnasamy College of Science, Arts & Management for Women, Annand Nagar, S. Kumarapuram, Nellikuppam Main Road, Cuddalore, under my supervision and guidance. The project has not previously formed the basis for the award of any degree, diploma, associateship, fellowship, or other similar titles.

DATE: 10.06.22

*A. Sivasakthi*  
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**M. SIVASAKTHI**, M.Sc., B.Ed., M.Phil.,

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Assistant professor,

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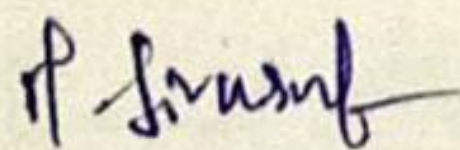
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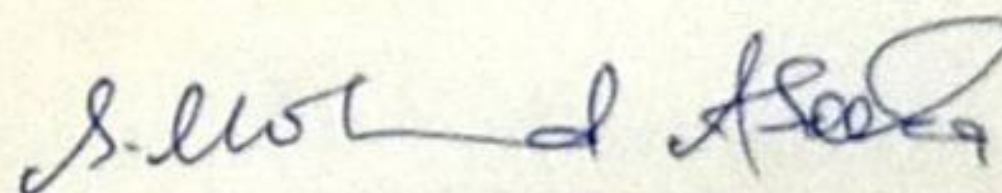
This is to certify that the project entitled, **MATRIX ANALYSIS WITH APPLICATION** submitted to Thiruvalluvar University in partial fulfillment of the requirement for the award of the degree of Master of science in Mathematics is a record of original research work done by **D.INDHUMATHI (Reg. No. 12020P20008)**, during the period of her study 2020-2022, in the Department of Mathematics, Krishnasamy College of Science, Arts & Management for Women. Annand Nagar, S. Kumarapuram, Nellikuppam Main Road, Cuddalore, under my supervision and guidance. The project has not previously formed the basis for the award of any degree, diploma, associateship, fellowship, or other similar titles.

DATE: 10.06.22



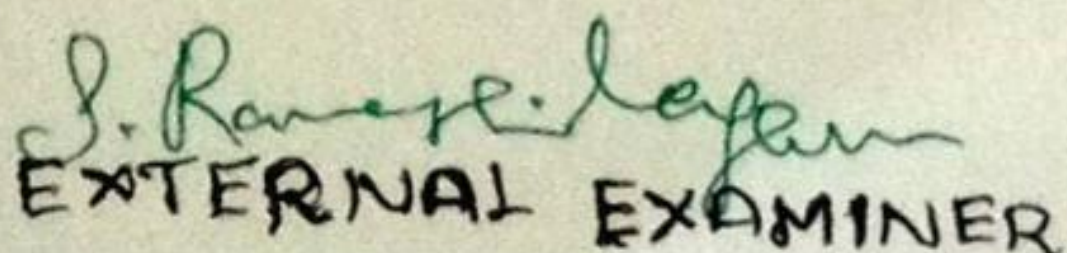
**HEAD OF THE DEPARTMENT**

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Assistant Professor,  
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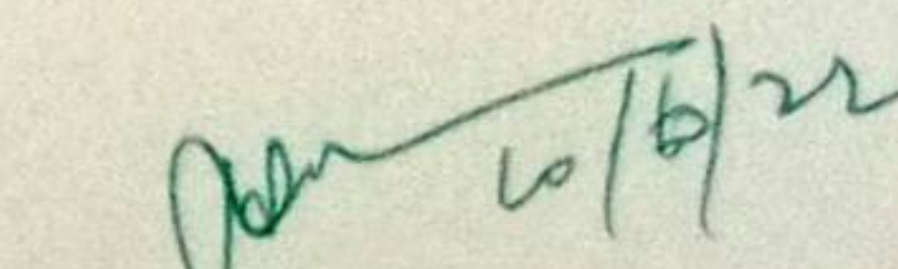
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**EXTERNAL EXAMINER**

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### CERTIFICATE

This is to certify that the project entitled, **A STUDY ON FUZZY TRANSLATIONS AND EXTENSION OF  $\beta$ -ALGEBRAS** submitted to Thiruvalluvar University in partial fulfillment of the requirement for the award of the degree of Master of science in Mathematics is a record of original research work done by **G.LAKSHMI PRIYA (Reg. No. 12020P20009)**, during the period of her study 2020-2022, in the Department of Mathematics, Krishnasamy College of Science, Arts & Management for Women, Annand Nagar, S. Kumarapuram, Nellikuppam Main Road, Cuddalore, under my supervision and guidance. The project has not previously formed the basis for the award of any degree, diploma, associateship, fellowship, or other similar titles.

DATE: 10.06.22

*M. Sivakshi*

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**M. SIVASAKTHI**, M.Sc., B.Ed., M.Phil.,

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*S. Ramesh Kumar*

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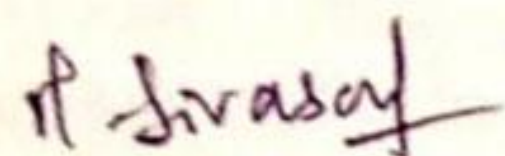
**Krishnasamy College of Science, Arts & Management for Women**

**Anand Nagar, S. Kumarapuram, Nellikuppam Main Road Cuddalore -607109**

### CERTIFICATE

This is to certify that the project entitled, **A STUDY ON EIGEN FUZZY SET OF FUZZY RELATION** submitted to Thiruvalluvar University in partial fulfillment of the requirement for the award of the degree of Master of science in Mathematics is a record of original research work done by **K. PAVITHRA (Reg. No. 12020P20010)**, during the period of her study 2020-2022, in the Department of Mathematics, Krishnasamy College of Science, Arts & Management for Women. Annand Nagar, S. Kumarapuram, Nellikuppam Main Road, Cuddalore, under my supervision and guidance. The project has not previously formed the basis for the award of any degree, diploma, associateship, fellowship, or other similar titles.

DATE: 10-06-2022



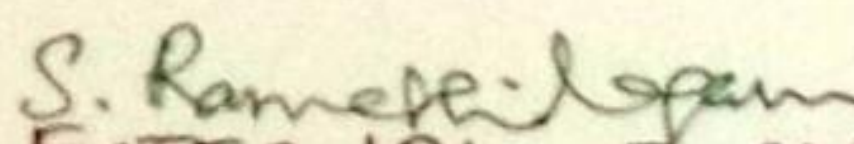
HEAD OF THE DEPARTMENT

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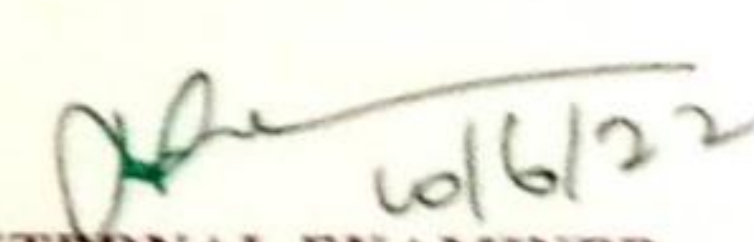


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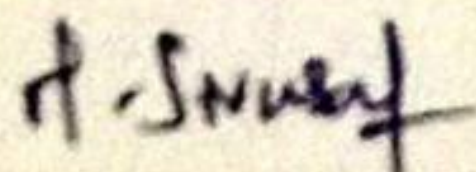
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### CERTIFICATE

This is to certify that the project entitled, **A STUDY ON GRAPH COLORING** submitted to Thiruvalluvar University in partial fulfillment of the requirement for the award of the degree of Master of science in Mathematics is a record of original research work done by **M. REVATHI (Reg. No. 12020P20011)**, during the period of her study 2020-2022, in the Department of Mathematics, Krishnasamy College of Science, Arts & Management for Women, Annand Nagar, S. Kumarapuram, Nellikuppam Main Road, Cuddalore, under my supervision and guidance. The project has not previously formed the basis for the award of any degree, diploma, associateship, fellowship, or other similar titles.

DATE: 10.06.2022



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CERTIFICATE

This is to certify that the project entitled, **A STUDY ON SEQUENTIAL LABELING ON GRAPHS** submitted to Thiruvalluvar University in partial fulfillment of the requirement for the award of the degree of Master of science in Mathematics is a record of original research work done by **A.SHABREEN BANU (Reg. No. 12020P20012)**, during the period of her study 2020-2022, in the Department of Mathematics, Krishnasamy College of Science, Arts & Management for Women, Annand Nagar, S. Kumarapuram, Nellikuppam Main Road, Cuddalore, under my supervision and guidance. The project has not previously formed the basis for the award of any degree, diploma, associateship, fellowship, or other similar titles.

DATE: 10.06.22

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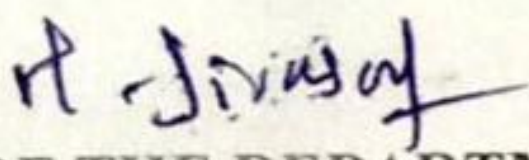
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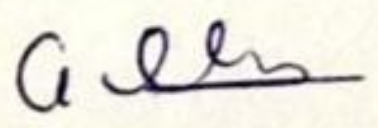
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**CERTIFICATE**

This is to certify that the project entitled, **A STUDY ON SOME VARIATION OF GRAPH LABELING AND ITS APPLICATIONS IN VARIOUS FEILD** submitted to Thiruvalluvar University in partial fulfillment of the requirement for the award of the degree of Master of science in Mathematics is a record of original research work done by **S.SHANMUGAPRIYA (Reg. No. 12020P20013)**, during the period of her study 2020-2022, in the Department of Mathematics, Krishnasamy College of Science, Arts & Management for Women, Annand Nagar, S. Kumarapuram, Nellikuppam Main Road, Cuddalore, under my supervision and guidance. The project has not previously formed the basis for the award of any degree, diploma, associateship, fellowship, or other similar titles.

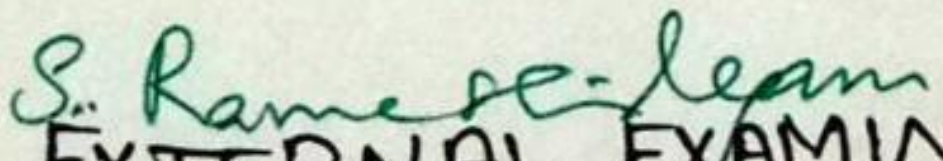
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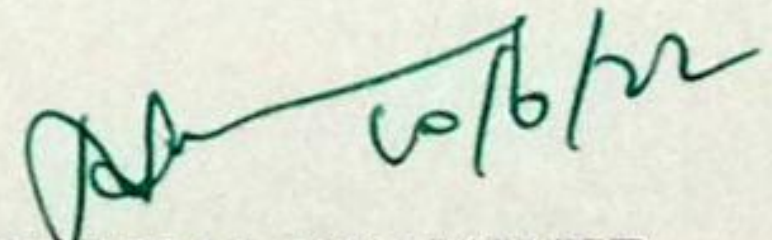
  
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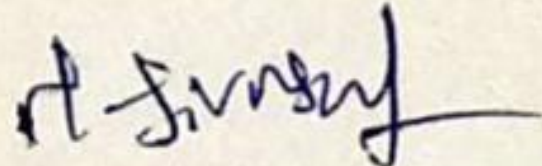
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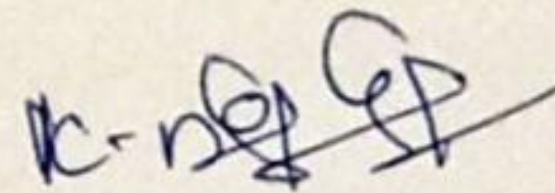
**CERTIFICATE**

This is to certify that the project entitled, **A STUDY ON GRACEFUL LABELING IN SOME GRAPH** submitted to Thiruvalluvar University in partial fulfillment of the requirement for the award of the degree of Master of science in Mathematics is a record of original research work done by **S. SUGANYA (Reg. No. 12020P20014)**, during the period of her study 2020-2022, in the Department of Mathematics, Krishnasamy College of Science, Arts & Management for Women. Annand Nagar, S. Kumarapuram, Nellikuppam Main Road, Cuddalore, under my supervision and guidance. The project has not previously formed the basis for the award of any degree, diploma, associateship, fellowship, or other similar titles.

DATE: 10.6.22



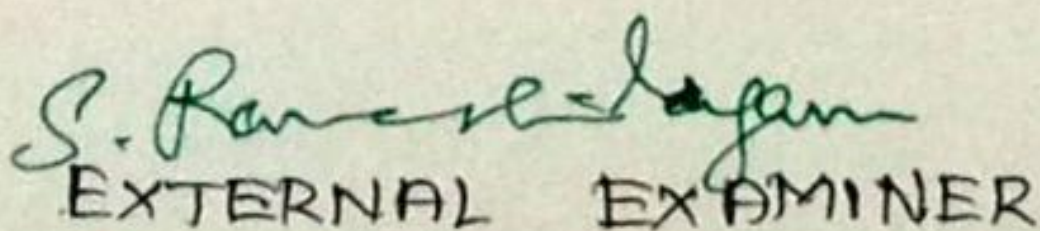
**HEAD OF THE DEPARTMENT**



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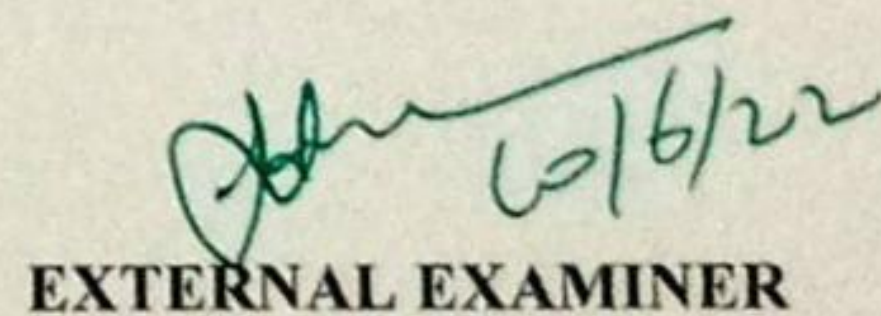
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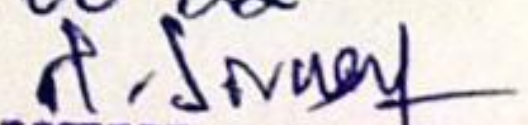
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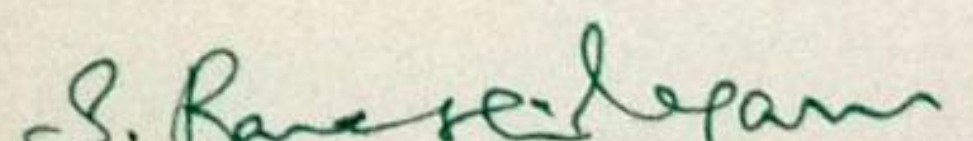
### CERTIFICATE

This is to certify that the project entitled, **A STUDY ON MATRIX AND ITS CONDITIONS** submitted to Thiruvalluvar University in partial fulfilment of the requirement for the award of the degree of Master of science in Mathematics is a record of original research work done by **K. THARANI (Reg. No. 12020P20015)**, during the period of her study 2020-2022, in the Department of Mathematics, Krishnasamy College of Science, Arts & Management for Women, Annand Nagar, S. Kumarapuram, Nellikuppam Main Road, Cuddalore, under my supervision and guidance. The project has not previously formed the basis for the award of any degree, diploma, associateship, fellowship, or other similar titles.

DATE: 10.06.22

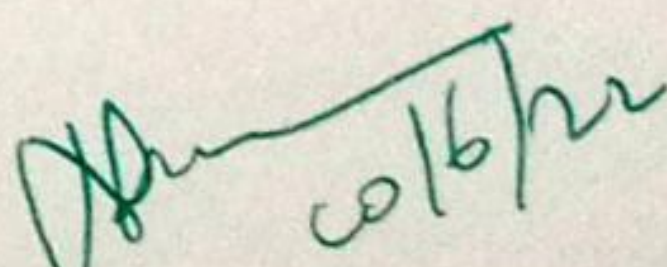
  
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### CERTIFICATE

This is to certify that the project entitled, **A STUDY ON ISOMORPHISM OF FUZZY GRAPHS** submitted to Thiruvalluvar University in partial fulfilment of the requirement for the award of the degree of Master of science in Mathematics is a record of original research work done by **R.VIJAYALAKSHMI (Reg. No. 12020P20016)**, during the period of her study 2020-2022, in the Department of Mathematics, Krishnasamy College of Science, Arts & Management for Women, Annand Nagar, S. Kumarapuram, Nellikuppam Main Road, Cuddalore, under my supervision and guidance. The project has not previously formed the basis for the award of any degree, diploma, associateship, fellowship, or other similar titles.

DATE: 10.06.22  
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