Dr.R.MURUGANANDAM,M.Sc.,M.Phil.,Ph.D., PG and Research Department of Mathematics Associate Professor Thanthai Periyar Government Arts and Science College (A) Tiruchirappalli-620 023

CERTIFICATE

This is to certify that the project work entitled "THE DOMINATOR VERTEX AND EDGE COLORING OF SOME GRAPHS" done under my guidance submitted to the THANTHAI PERIYAR GOVERMENT ARTS AND SCIENCE COLLEGE (Autonomous and Accredited), Trichy-23 affiliated to the BHARATHIDASAN UNIVERSITY in partial fulfilment of the requirements for the award of the Degree of MASTER OF SCIENCE IN MATHEMATICS is a bonafide record of the work done by

AJITH KUMAR. A (Reg.No:20PMA01)

in the PG and Research Department of Mathematics, Thanthai Periyar Government Arts and Science College (Autonomous and Accredited), Tiruchirappalli -23 during the period 2020-2022.

Signature of the

Head of the department

Head of the Department PG & Research Department of Mathematics Phanthei Periyar Government Arts & Science College (Autonomous) Tiruchirappalli - 620 023

re of the Guide

ASSISTANT PROFESSOR PG & RESEARCH DEPARTMENT OF MATHEMATICS THANTHAI PERIYAR GOVERNMENT ARTS & SCIENCE COLLEGE (AUTONOMOUS) TIRUCHIRAPPALLI - 620 023.

EXAMINERS:

Dr. P. THIRUNAVUKARASU, M.Sc., M. Phil., Ph.D., PGDCA., B.Ed., Assistant Professor. PG & Research Department of Mathematics, Thanthai Periyar Government Arts & Science College (A), Tiruchirappalli - 620 023,

CERTIFICATE

This is to certify that the Project work entitled "INTRODUCTION TO Z TRANSFORM AND ITS PROPERTIES" done under my guidance and submitted to the THANTHAI PERIYAR GOVERNMENT ARTS & SCIENCE COLLEGE(A), TRICHY-23 BHARATHIDASAN affiliated the to UNIVERSITY, TRICHY, in partial fulfillment of the requirements for the award of the degree of MASTER OF SCIENCE IN MATHEMATICS is a bonafide record of the work done by DHINESHKUMAR S (Register No.: 20PMA03) in the PG and Research Department of Mathematics, Thanthai Periyar Government Arts & Science College (A), Tiruchirappalli – 23, during the period 2020-2022.

Head of the Department ₽G & Research Department of Mathematics Denthai Periyar Government Arts & Science College(Autonomous) Tiruchirappalli - 620 023

Dr. P. THIRUNAVUKARASU, M.Sc., M Phil Ph.D., B.Ed., PGDCA., Assistant Professor

PG & Research Thantha.

of Mathematics eroment

Arts & Scient

Autonomous) Tiruchirappala-o... o.... familnadu, India

EXAMINERS

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Dr.(Mrs.) R.RAZIYA BEGAM, M.Sc., M.Phil, B.Ed, M.CA. Ph.D.,

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This is to certify that the Project work entitled " A STUDY ON INDEPENDENT SETS AND CLIQUES "done under my guidance and submitted to the THANTHAI PERIYAR GOVERNMENT ARTS & SCIENCE COLLEGE (AUTONOMOUS), TRICHY-23 affiliated to the BHARATHIDASAN UNIVERSITY, TRICHY In partial fulfillment of the requirements for the award of the degree of MASTER OF SCIENCE IN MATHEMATICS is a bonafide record of the work done by S.JUSTIN BOSCO (Register No.: 20PMA04) in the PG and Research Department of Mathematics, Thanthai Periyar (Autonomous), College Science Arts & Government Tiruchirappalli – 23, during the period 2020-2022.

Signature dethof the Department PG & Research Descriment of Mathematics Head of the department of College Autonomous

Tiruchirapi - J 023

R. Riziga Beg .-

Signature of Guide

ASSOCIATE PROFESSOR PG & RESEARCH DEPARTMENT OF MATHEMATICS THANTHAI PERIYAR GOVERNMENT ARTS & SCIENCE COLLEGE (AUTONOMOUS) TIRUCHIRAPPALLI - 620 023.

Signature of Examiner

N. Carribel 5 16/22

CDS.M. TAMILSCIVI, Head 8 Associate Property

of Mathematics, SRC, Tricky)

(2) R.R. 240 Begn 2/6/22

Dr. (Mrs.) K. PONNAMMAL, M.Sc., M. Phil., M.CA., Ph.D.,

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This is to certify that the Project work entitled "A STUDY ON MINIMAL SURFACE" done under my guidance and submitted to the THANTHAI PERIYAR GOVERNMENT ARTS & SCIENCE COLLEGE (AUTONOMOUS), affiliated to the BHARATHIDASAN UNIVERSITY in partial fulfillment of the requirements for the award of the degree of MASTER OF SCIENCE IN MATHEMATICS is a bonafide record of the work done by

C.KABISH KUIMARAN (Register No: 20PMA05)

in the PG and Research Department of Mathematics, Thanthai Periyar Government Arts & Science College (Autonomous), Tiruchirappalli - 23 during the period 2020-2022.

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Signature of the Examiners:

Head of the Department

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Examiners

Do.M. TAMILSELVI, 1400 & Associate

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Dr.K.RADHA, M.Sc.,M.Phil.,B.Ed.,SLET.,Ph.D., Assosicate Professor PG and Research Department of Mathematics Thanthai Periyar Government Arts and Science College (A) Tiruchirappalli-620 023

CERTIFICATE

This is to certify that the project work entitled "GALOIS THEORY AND SOME APPLICATIONS" done under my guidance submitted to the THANTHAI PERIYAR GOVERNMENT ARTS AND SCIENCE COLLEGE (Autonomous and Accredited), Trichy-23 affiliated to the BHARATHIDASAN UNIVERSITY in partial fulfillment of the requirements for the award of the Degree of MASTER OF SCIENCE IN MATHEMATICS is a bonafide record of the work done by A.KISHORE KUMAR (Reg.No:20PMA07) in the PG and Research Department of Mathematics, THANTHAI PERIYAR GOVERNMENT ARTS AND SCIENCE COLLEGE (Autonomous and Accredited), Tiruchirappalli -23 during the period 2020-22.

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Signature of the Examiners

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Dr.M. TAMIL SELVI Associate Proj. of Maths Seethalakshni Ramaswam

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CERTIFICATE

This is to certify that the project work entitled "A STUDY ON DOMINATING COLORING NUMBER OF SOME GRAPHS" done under my guidance submitted to the THANTHAI PERIYAR GOVERMENT ARTS AND SCIENCE COLLEGE (Autonomous and Accredited), Trichy-23 affiliated to the BHARATHIDASAN UNIVERSITY in partial fulfilment of the requirements for the award of the Degree of MASTER OF SCIENCE IN MATHEMATICS is a bonafide record of the work done by

MANI. M (Reg.No:20PMA08)

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EXAMINERS:

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This is to certify that the project work entitled "A STUDY ON QUEUEING MODEL" done under my guidance submitted to the Thanthai Periyar Govt. Arts and Science college (Autonomous and Accredited), Tiruchirappalli -23 affiliated to the BHARATHIDASAN UNIVERSITY in partial fulfillment of the requirements for the award of the Degree of MASTER OF SCIENCE IN MATHEMATICS is a bonafide record of the work done by

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CERTIFICATE

This is to certify that the project work entitled "A STUDY ON PERFECT GRAPH AND CHORDAL GRAPHS" done under my guidance submitted to the THANTHAI PERIYAR GOVERNMENT ARTS AND SCIENCE COLLEGE (A), Trichy-23 affiliated to the BHARATHIDASAN UNIVERSITY in partial fulfillment of the requirements for the award of the Degree of MASTER OF SCIENCE IN MATHEMATICS is a bonafide record of the work done by MARIYAPPAN K (Reg.No:20PMA10) in the PG and Research Department of Mathematics, Thanthai Periyar Government Arts and Science(A), Tiruchirappalli-23

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during the period 2020-2022.

Head of the Department
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1. Dr. P-SHANMUGANANTHAM
ASSO. PROF of MATHS
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EXAMINERS

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Dr. W. LILLY MERLINE, M.Sc., M.Phil., B.Ed., PGDCA., Ph.D., Assistant Professor, PG and Research Department of Mathematics, Thanthai Periyar Government Arts and Science College (Autonomous), Tiruchirappalli – 23.

CERTIFICATE

This is to certify that the project work entitled "APPLICATION OF FUZZY MATRIX IN REAL LIFE PROBLEMS" done under my guidance and submitted to the *Thanthai Periyar Government Arts And Science* College (Autonomous), Trichy-23 affiliated to the BHARATHIDASAN UNIVERSITY in partial fulfilment of the requirements for the award of the degree of MASTER OF SCIENCE IN MATHEMATICS is a bonafide record of the work done by MARTIN ROSARIO. J (Reg. No. 20PMA11) in the PG and Research Department of Mathematics, Thanthai Periyar Government Arts and Science College (Autonomous), Tiruchirappalli-23 during the period 2020-2022.

Signature of the

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Dr. (Mrs.) K. KASTURRI, M.Sc., M. Phil., SLST., Ph.D.,

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CERTIFICATE

This is to certify that the Project work entitled " A STUDY ON INTEGRAL TRASNFORM METHODS " done under my guidance and submitted to the THANTHAI PERIYAR GOVERNMENT ARTS & SCIENCE COLLEGE (AUTONOMOUS), TRICHY-23 affiliated to the BHARATHIDASAN UNIVERSITY, TRICHY, in partial fulfillment of the requirements for the award of the degree of MASTER OF SCIENCE IN MATHEMATICS is a bonafide record of the work done by M.MOHANRAJ (Register No: 20PMA12) in the PG and Research Department of Mathematics, Thanthai Periyar Government Arts & Science College (Autonomous), Tiruchirappalli - 23, during the period 2020-2022.

Signature of the

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Head of the Department

PG & Research Department of Mathematics

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External Examiners

Dr.K.KASTURRI,M.Sc.,M.Phil.,Ph.D.,

Assistant Professor
P.O. and Research Department of Mathematics Thankai Periyar Government is & Science College (Autonomous) TIRUCHIRAPPALLI-620 023.

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Dr. A. THANITHAMIL, M.Sc., M. Phil., Ph.D., B.Ed., PGDCA.,

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CERTIFICATE

This is to certify that the Project work entitled "A STUDY ON LINEAR ALGEBRA WITH APPLICATION" done under my guidance and submitted to the THANTHAI PERIYAR GOVERNMENT ARTS & SCIENCE COLLEGE (AUTONOMOUS), TRICHY-23 affiliated to the BHARATHIDASAN UNIVERSITY, TRICHY, in partial fulfillment of the requirements for the award of the degree of MASTER OF SCIENCE IN MATHEMATICS is a bonafide record of the work done by G. MUNISHWARAN (Register No.: 20PMA13) in the PG and Research Department of Mathematics, Thanthai Periyar Government Arts & Science College (Autonomous), Tiruchirappalli – 23, during the period 2020-2022.

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CERTIFICATE

This is to certify that the Project work entitled "A STUDY ON ITERATIVE METHODS FOR FIXED POINTS " done under my guidance and submitted to the THANTHAI PERIYAR GOVERNMENT ARTS & SCIENCE COLLEGE (AUTONOMOUS), TRICHY-23 affiliated to the BHARATHIDASAN UNIVERSITY, TRICHY, in partial fulfillment of the requirements for the award of the degree of MASTER OF SCIENCE IN MATHEMATICS is a bonafide record of the work done by R. PRASANTH (Register No: 20PMA14) in the PG and Research Department of Mathematics, Thanthai Periyar Government Arts & Science College (Autonomous), Tiruchirappalli – 23, during the period 2020-2022.

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External Examiners

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CERTIFICATE

This is to certify that the Project work entitled "A STUDY ON LEGENDRE POLYNOMIAL " done under my guidance and submitted to the THANTHAI **GOVERNMENT** PERIYAR COLLEGE ARTS & SCIENCE (AUTONOMOUS),TRICHY-23 **BHARATHIDASAN** affiliated to the UNIVERSITY - TRICHY In partial fulfillment of the requirements for the award of the degree of MASTER OF SCIENCE IN MATHEMATICS is a bonafide record of the work done by S.SELVARAJ (Register No.: 20PMA15) in the PG and Research Department of Mathematics, Thanthai Periyar Government Arts & Science College (Autonomous), Tiruchirappalli - 23 during the period 2020-2022.

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1. Bredhers
02/06/22
2. Peli 02/06-22

Dr.B.GAYATHRI,M.Sc., UGC-NET, M.Phil.,Ph.D.,P.G.D.C.A.,M.C.A.,
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CERTIFICATE

This is to certify that the project work entitled "A STUDY ON POWER 3 MEAN GRAPHS" done under my guidance submitted to the THANTHAI PERIYAR GOVERMENT ARTS AND SCIENCE COLLEGE (Autonomous and Accredited), Trichy-23 affiliated to the BHARATHIDASAN UNIVERSITY in partial fulfilment of the requirements for the award of the Degree of MASTER OF SCIENCE IN MATHEMATICS is a bonafide record of the work done by

SRIDHAR.A (Reg.No:20PMA16)

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Signature of the

Head of the department

Head of the Department
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Signature of the Guide

ASSOCIATE PROFESSOR
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EXAMINERS:

1. N. Garileell 2/6/22

2. B. Logolin

Dr. K. RADHA, M.Sc., M.Phil., B.Ed., SLET., Ph.D.,

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CERTIFICATE

This is to certify that the Project work entitled "A STUDY ON FUZZY SETS AND THEIR APPLICATIONS" done under my guidance and submitted to the THANTHAI PERIYAR GOVERNMENT ARTS AND SCIENCE COLLEGE (AUTONOMOUS), TRICHY-23 affiliated to the BHARATHIDASAN UNIVERSITY - TRICHY In partial fulfillment of the requirements for the award of the degree of MASTER OF SCIENCE IN MATHEMATICS is a bonafide record of the work done by SURESH.S (REGISTER NO: 20PMA17) in the PG and Research Department of Mathematics, Thanthai Periyar Government Arts and Science College (Autonomous), Tiruchirappalli - 23 during the period 2020-2022.

Signature of the

Head of the department
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2. N. Gamilah 2/6/12
Dr. M. FAMIL SELVI
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Signature of the Examinar

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CERTIFICATE

This is to certify the project work entitled "A Study on Singularly Perturbed Linear System of First Order Ordinary Differential Equations" done under my guidance and submitted to the Thanthai Periyar Government Arts and Science College (Autonomous), affiliated to the BHARATHIDASAN UNIVERSITY in partial fulfilment of the requirements for the award of the degree of MASTER OF SCIENCE IN MATHEMATICS is a bonafide record of the work done by SURYA. D (Reg. No. 20PMA18) in the PG and Research Department of Mathematics, Thanthai Periyar Government Arts and Science College (Autonomous), Tiruchirappalli- 620 023 during the period 2020- 2022.

3125-21-Signature of Head of the Department Head of the Department

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Dr.P.MARAGATHA MEENAKSHI.
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Internal Examiner

Dr. P. MARAGATHA MEENAKSHI, M.Sc., M.Phil., PBDCSA., CSIR-UGC NET., Ph.D., Associate Professor & Research Supervisor PG & Research Department of Mathematics Thanthai Periyar Govt Arts & Source College : A) Tiruchirappalli - 620 023, TABIIL NADU INDIA

External Examiner

1. n. Gami bel 2/6/21

Dr.M.Tamil Selvi, Associate Professor & Head, SRC college, Trichy-2. Dr. S. SETHURAMAN, M.Sc., M.Phil., Ph.D.,

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CERTIFICATE

This is to certify that the Project work entitled "A STUDY ON HERMITE POLYNOMIAL " done under my guidance and submitted to the THANTHAI **GOVERNMENT** ARTS & SCIENCE COLLEGE (AUTONOMOUS) TRICHY-23, affiliated to the BHARATHIDASAN UNIVERSITY - TRICHY In partial fulfillment of the requirements for the award of the degree of MASTER OF SCIENCE IN MATHEMATICS is a bonafide record of the work done by S.VIGNESH (Register No.: 20PMA19) in the PG and Research Department of Mathematics, Thanthai Periyar Goverment Arts & Science College (Autonomous), Tiruchirappalli - 23 during the period 2020-2022.

Signature of the

Head of the department Head of the Department. PG & Research Department of Mathematics Deather Perivar Government Arts & Science College Autonomous

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Signature of Guide Head of the Department PG & Research Department of Mathematics Thanthai Periyar Government Arts & Science College(Autonomous) Tiruchirappalli - 620 023

Signature of Examinar

1. Brenkern 02/06/22 2. Bell 206-22

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CERTIFICATE

This is to certify that the project work entitled "A STUDY ON PELL'S EQUATION" done under my guidance submitted to the THANTHAI PERIYAR GOVERNMENT ARTS & SCIENCE COLLEGE (Autonomous and Accredited), Trichy-23 affiliated to the BHARATHIDASAN UNIVERSITY in partial fulfillment of the requirements for the award of the Degree of MASTER OF SCIENCE IN MATHEMATICS is a bonafide record of the work done by G.VINOTHKUMAR (Reg. No. 20PMA20) in the PG and Research Department of Mathematics, Thanthai Periyar Government Arts & Science college (Autonomous and Accredited), Tiruchirappalli -23 during the period 2020-2022.

Signature of the

Head of the department

Head of the Department
PG & Research Department of Mathematics
Part Ferryar Government Arts & Science College (Autonomous)

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125/05/22

Signature of the Guide

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THANTHAI PERIYAR GOVERNMENT ARTS & SCIENCE COLLEGE (AUTONOMOUS) TIRUCHIRAPPALLI - 620 023.

Signature of the Examiners

1. M. Gamilsehm

2. Almor 2/6/22

Dr. P. THIRUNAVUKARASU,
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CERTIFICATE

This is to certify that the project work entitled "FUZZY MODEL USING FUZZY MATRIX" done under my guidance and submitted to the Thanthai Periyar Government Arts And Science College (Autonomous), Trichy-23 affiliated to the BHARATHIDASAN UNIVERSITY in partial fulfilment of the requirements for the award of the degree of MASTER OF SCIENCE IN MATHEMATICS is a bonafide record of the work done by VISHNU GOPAL.N (Reg. No. 20PMA21) in the PG and Research Department of Mathematics, Thanthai Periyar Government Arts and Science College (Autonomous), Tiruchirappalli – 23 during the period 2020 - 2022.

Signature of the

Head of the Department

Head of the Department

PG & Research Department of Mathematics

Thankai Periyar Government Arts & Science College Autonomous

Tiruchirappalli - 620 023

Signature of the Guide 27/25/22 (Dr. W. Lilly Merline)

ASSISTANT PROFESSOR
PG & RESEARCH DEPARTMENT OF MATHEMATICS
THANTHAI PERIYAR GOVERNMENT
ARTS & SCIENCE COLLEGE (AUTONOMOUS)
TIRUCHIRAPPALLI - 620 023.

Signature of the Examiners

1. Brandham)
02/06/2L

2. 2)06/22

Dr. P. THIRUNAVUKARASU, M.Se., M. Phil., Ph.D., PGDCA., B.Ed., Assistant Professor, PG & Research Department of Mathematics. Thanthai Periyar Government Arts & Science College (A). Tiruchirappalli - 620 023.

CERTIFICATE

This is to certify that the Project work entitled "A STUDY ON LATIN SEQUARE DESIGN AND 22- FACTORIAL DESIGN" done under my guidance and submitted to the THANTHAI PERIYAR GOVERNMENT ARTS & SCIENCE COLLEGE (A), TRICHY-23 affiliated to the BHARATHIDASAN UNIVERSITY, TRICHY, in partial fulfillment of the requirements for the award of the degree of MASTER OF SCIENCE IN MATHEMATICS is a bonafide record of the work done YOKESHWARAN C (Register No. : 20PMA22) in the PG and Research Department of Mathematics, Thanthai Periyar Government Arts & Science College (A), Tiruchirappalli – 23, during the period 2020-2022.

Head of the Department AG & Research Department of Mathematics Thanthai Periyar Government Arts & Science College(Actonomous)

Tiruchirappalli - 620 023

SIGNATURE OF THE GUIDE

Dr. P. THIRUNAVUKARASU, M.Sc., M. Phil., Ph.D., B.Ed., PGDCA.

Assistant Professor PG & Research Department of Mathematics Thanthai Periyar Government

Arts & Science College (Autonomous) Tiruchirappalli-620 023. Tamilnadu, India

EXAMINERS

M.Sc., M. Phil., Ph.D., B.Ed., PGI

Assistant Professor

PG & Research Department of Mathematics Thanthai Penyar Government

Arts & Science College (Autonomous) Tiruchirappalli-620 023. Tamahadu, India Dr. P. MARAGATHA MEENAKSHI, M.Sc., M.Phil., PBDCSA., NET., Ph.D.,

Associate Professor

PG and Research Department of Mathematics

Thanthai Periyar Government Arts and Science College (Autonomous)

Tiruchirappalli 620-023

CERTIFICATE

This is to certify the project work entitled "A Study on Partially Singularly Perturbed Linear System of First Order Ordinary Differential Equations" done under my guidance and submitted to the Thanthai Periyar Government Arts and Science College (Autonomous), affiliated to the BHARATHIDASAN UNIVERSITY in partial fulfilment of the requirements for the award of the degree of MASTER OF SCIENCE IN MATHE-MATICS is a bonafide record of the work done by ABINAYA. J (Reg. No. 20PMA23) in the PG and Research Department of Mathematics, Thanthai Periyar Government Arts and Science College (Autonomous), Tiruchirappalli- 620 023 during the period 2020-2022.

Signature of Head of the Department Head of the Department

PG & Research Department of Mathematics Thanthai Periyar Government Arts & Science College(Autonomous) Tiruchirappalli - 620 023

Signature of the Guide

Dr.P.MARAGATHA MEENAKE M.Sc.,M.Phil.,PBDCSA.,NET., Associate Professor & Research Supervised P.G. and Research Department of Mathem Thanthai Periyar Government Arts & Science College tonomous)

TIRUCHIRAPPALLI 620 023.

External Examiner

Dr. M. Tamil Selvi

Associate Professor & Head; SRC college, Trichy-1.

Internal Examiner

Dr. P. MARAGATHA MEENAKSHI, MIST MERN PEDCS 4 CSIR-MGC NET, Ph.D., Associate Professor & Research Supervisor PG & Research Department of Wathematics Thanthai Periyar Govt. Aris & Science College :4) Tiruchiranpalli - 620 023, TAMIL NADU INDIA

Dr. W. LILLY MERLINE, M.Sc., M.Phil., B.Ed., PGDCA., Ph.D., Assistant Professor, PG and Research Department of Mathematics, Thanthai Periyar Government Arts and Science College (Autonomous), Tiruchirappalli - 23.

CERTIFICATE

This is to certify that the project work entitled "CLASSICAL ENCRYPTION TECHNIQUES" done under my guidance and submitted to the Thanthai Periyar Government Arts and Science College (Autonomous), Trichy-23 affiliated to the BHARATHIDASAN UNIVERSITY in partial fulfilment of the requirements for the award of the degree of MASTER OF SCIENCE IN MATHEMATICS is a bonafide record of the work done by ANITHA.S (Reg. No. 20PMA24) in the PG and Research Department of Mathematics, Thanthai Periyar Government Arts and Science College (Autonomous), Tiruchirappalli-23 during the period 2020-2022.

Signature of the Head of the Department

Head of the Department PG & Research Department of Mathematics Transhai Periyar Government Arts & Science College(Autonomous) Tiruchirappalli - 620 023

क्रीकिकिया क्रिकार् १. २७५/२२ Signature of the Guide Dr. WILLLY MERLINE

ASSISTANT PROFESSOR PG & RESEARCH DEPARTMENT OF MAY THANTHAI PERIYAR GOVERNMEN ARTS & SCIENCE COLLEGE (AUTONOMUSE) TIRUCHIRAPPALLI - 620 023.

Signature of the Examiners

Dr. A. THANITHAMIL, M.Sc., M.Phil., Ph.D., B.Ed., PGDCA., Assistant Professor.
PG and Research Department of Mathematics,
Thanthai Periyar Government Arts & Science College (A),
Tiruchirappalli - 620 023

CERTIFICATE

This is to certify that the Project work entitled "A STUDY ON TRIANGULATED GRAPH AND THE ELIMINATION PROCESS" done under my guidance and submitted to the THANTHAI PERIYAR GOVERNMENT ARTS & SCIENCE COLLEGE(A), TRICHY-23 affiliated to the BHARATHIDASAN UNIVERSITY, TRICHY, in partial fulfillment of the requirements for the award of the degree of MASTER OF SCIENCE IN MATHEMATICS is a bonafide record of the work done by S.BHARATHI (Register No: 20PMA25) in the PG and Research Department of Mathematics, Thanthai Periyar Government Arts & Science College (A), Tiruchirappalli – 23, during the period 2020-2022.

Signature of the Head of the department

Head of the Department

PG & Research Department of Mathematics Thanthai Periyar Government Arts & Science College (Autonomous) Tiruchirappalli - 620 023 Signature of the Guide

Examiners

1.

2/06/22

2. 2001

Dr. V. MALATHI, M.Sc., B.Ed., M.Phil., Ph.D.,

Assistant Professor, PG and Research Department of Mathematics, Thanthai Periyar Government Arts & Science College (Autonomous), Tiruchirappalli-620 023.

CERTIFICATE

This is to certify that the project work entitled "A STUDY ON FUZZY TREE AND FUZZY FOREST" done under my guidance submitted to the THANTHAI PERIYAR GOVERNMENT ARTS & SCIENCE COLLEGE (Autonomous and Accredited), Trichy-23 affiliated to the BHARATHIDASAN UNIVERSITY in partial fulfilment of the requirements for the award of the Degree of MASTER OF SCIENCE IN MATHEMATICS is a bonafide record of the work done by

K.DHIVYA PRIYA (Reg.No:20PMA26)

in the PG and Research Department of Mathematics, Thanthai Periyar Government Arts & Science college (Autonomous and Accredited), Tiruchirappalli -23 during the period 2020-2022.

Signature of the

Head Heading day Tetraffinent

PG & Research Department of Mathematics Thanthai Periyar Government Arts & Science College(Autonomous)

Tiruchirappalli - 620 023

Signature of the EXAMINERS:

1. M. Gamilsely

Signature of the Guide

ASSISTANT PROFESSOR PG & RESEARCH DEPARTMENT OF MATHEMATICS

THANTHAI PERIYAR GOVERNMENT ARTS & SCIENCE COLLEGE (AUTONOMOUS) TIRUCHIRAPPALLI - 620 023.

M.Sc., M.Phil., Ph.D., B.Ed., PGDCA

Assistant Professor PG & Research Department of Mathematics Thanthai Periyar Government Arts & Science College (Autonomous)

Tiruchirappalli-620 023, Tamilnadu, Ind

Dr. M. MARAGATHAM M .Sc., M. Phil., Ph.D.,

Associate Professor

PG and Research Department of Mathematics

Thanthai Periyar Government Arts and science College (A)

Trichirappalli - 620 023

CERTIFICATE

This is to certify that the work entitled "MARKOVIAN DECISION PROCESS" done under my guidance and submitted to the THANTHAI PERIYAR GOVERNMENT ARTS AND SCIENCE COLLEGE (A), affiliated to the BHARATHIDASAN UNIVERSITY in partial fulfillment of the requirements for the award of the degree of MASTER OF SCIENCE IN MATHEMATICS is a bonafide record of the work done by Ms. E.GANGA (Reg No:20PMA27) in PG and Research Department of Mathematics, THANTHAI PERIYAR ARTS AND SCIENCE COLLEGE(A), Triruchirappalli - 620 023 during the period 2020-2022.

Signature of the

Head of the department

Head of the Department
PG & Research Department of Mathematics
Thanthai Periyar Government Arts & Science College (Autonomous)
Tiruchirappalli - 620 023

9. Mary Signature of the Guide

Dr.M.MARAGATHAM,

Associate Professor
P.G. and Research Department of Mathematics
Thanthai Penyar Government
Arts & Science College (Autonomous)
TIRUCHIRAPPALLI-620 023.

Signature of the Examiners

1. Bullan 2/6/LL

2. 9. 9 - - - 6.22

ASSO. PROF OF MATHS
National college
Trichy.

A STUDY ON FUNDAMENTAL EQUATIONS OF SURFACE THEORY

A dissertation submitted to the

Thanthai Periyar Government Arts and Science College (Autonomous), Tiruchirappalli,

Affiliated to Bharathidasan University, Tiruchirappalli in partial fulfillment of the requirements for the award of the degree of

MASTER OF SCIENCE IN MATHEMATICS

Submitted by

K.GAYATHRI

(Register No.: 20PMA28)

Under the Guidance of

Dr. (Mrs.) K.PONNAMMAL, M.Sc., M.Phil., M.C.A., Ph.D.,

Assistant Professor of Mathematics,

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Tiruchirappalli - 620 023.



PG AND RESEARCH DEPARTMENT OF MATHEMATICS
THANTHAI PERIYAR GOVERMENT ARTS AND SCIENCE COLLEGE
(AUTONOMOUS),
TIRUCHIRAPPALLI- 620 023.

MAY-2022

Dr.K.RADHA,M.Sc.,M.Phil.,B.Ed.,SELT.,Ph.D., Assosicate Professor PG and Research Department of Mathematics Thanthai Periyar Government Arts and Science College (A) Tiruchirappalli-620 023

CERTIFICATE

This is to certify that the project work entitled "A STUDY ON VERTEX MAGIC AND EVEN VERTEX MAGIC TOTAL LABELING "done under my guidance submitted to the THANTHAI PERIYAR GOVERNMENT ARTS AND SCIENCE COLLEGE (Autonomous and Accredited), Trichy-23 affiliated to the BHARATHIDASAN UNIVERSITY in partial fulfillment of the requirements for the award of the Degree of MASTER OF SCIENCE IN MATHEMATICS is a bonafide record of the work done by K.KANIMALAR (Reg.No:20PMA29) in the PG and Research Department of Mathematics, Thanthai Periyar Government Arts and Science college (Autonomous and Accredited), Tiruchirappalli -23 during the period 2020-22.

Signature of

Head of the Department

Head of the Department PG & Research Department of Mathematics

Thanhai Permar Government Arts & Science College Autonomous

Tiruchirappalli - 620 023

ASSOCIATE PROFESSOR PG & RESEARCH DEPARTMENT OF MATHEMATICS THANTHAI PERIYAR GOVERNMENT

ARTS & SCIENCE COLLEGE (AUTONOMOUS)

TIRUCHIRAPPALLI - 620 023.

Signature of the Examiners

TOT K. RADHE WISE IN THE SET SLET Ph.D.

Associate Professor of Mathematics Thanthai Periyar Government Arts & Science College (Autonomous)

Tiruchirappalli-620 023.

Dr. A. THANITHAMH., M.Sc., M.Phil., Ph.D., B.A.A., PCAYCA., Assistant Professor.
PC and Research Department of Mathematics.
Thanthai Periyar Corremnent Arts & Science College (A).
Tiruchirappatti = 620 023

CERTIFICATE

This is to certify that the Project work excited "A STUDY ON SECOND ORDER PARTIAL DIFFERENTIAL EQUATIONS" done under my guidance and submitted to the THANTHAI PERIYAR COVERNMENT ARTS & SCIENCE COLLEGE (A), TRICHY-23 affiliated to the BHARATHIDASAN UNIVERSITY, TRICHY, in partial fulfillment of the requirements for the award of the degree of MASTER OF SCIENCE IN MATHEMATICS is a bonafide record of the work done by M. KEERTHANA (Register No.: 20PMA30) in the PG and Research Department of Mathematics, Thanthai Periyar Government Arts & Science College (A), Tiruchirappalli – 23, during the period 2020-2022.

Signature of the Head of the department

Head of the Department
PG & Research Department of Mathematics
Thanks Febru Grennest Mts I Vienz Ullege Intonomous

Tiruchirappelli - 620 023

Signature of the Guide

Examiners

1. Ludour 02/06/22

2.

Dr. (Mrs.) K. KASTURRI, M.Sc., M. Phil., SLST., Ph.D.,

Assistant Professor.

PG and Research Department of Mathematics,

Thanthai Periyar Government Arts & Science College (Autonomous),

Tiruchirappalli- 620 023.

CERTIFICATE

This is to certify that the Project work entitled "A STUDY ON FIBANOCCI AND LUCAS SUMS BY MATRIX METHODS" done under my guidance and submitted to the THANTHAI PERIYAR GOVERNMENT ARTS & SCIENCE COLLEGE (AUTONOMOUS), TRICHY-23 affiliated to BHARATHIDASAN UNIVERSITY, TRICHY, in partial fulfillment of the requirements for the award of the degree of MASTER OF SCIENCE IN MATHEMATICS is a bonafide record of the work done by M.MARIAMMAL (Register No: 20PMA31) in the PG and Research Department of Mathematics, Periyar Government Arts & Science College (Autonomous), Thanthai Tiruchirappalli – 23, during the period 2020-2022.

Signature of the

Head of the department Head of the Department PG & Research Department of Mathematics Thanthai Periyar Government Arts & Science College(Autonomous) Tiruchirappalli - 620 023

Signature of the

External Examiners

Dr.K.KASTURRI,M.Sc.,M.Phil.,Ph.D., Assistant Professor P.G. and Research Department of Mathematics Thanthai Periyar Government rts & Science College (Autonomous) TIRUCHIRAPPALLI-620 023.

2. K. Kastrustofie

Dr. S. SETHURAMAN, M.Sc., M.Phil., Ph.D.,

Associate professor & Head,

PG and Research Department of Mathematics,

Thanthai Periyar Government Arts & Science College (Autonomous),

Tiruchirappalli- 620 023.

CERTIFICATE

This is to certify that the Project work entitled "A STUDY ON LAGUERRE

POLYNOMIAL " done under my guidance and submitted to the THANTHAI PERIYAR GOVERNMENT ARTS & SCIENCE COLLEGE (AUTONOMOUS), TRICHY-23 affiliated to the BHARATHIDASAN UNIVERSITY - TRICHY In partial fulfillment of the requirements for the award of the degree of MASTER OF SCIENCE IN MATHEMATICS is a bonafide record of the work done by

P. PONMANI (Register No.: 20PMA32)

in the PG and Research Department of Mathematics, Thanthai Periyar Government Arts & Science College (Autonomous), Tiruchirappalli – 23 during the period 2020-2022

Signature of the

Head of the department

Head of the Department PG & Research Department of Mathematics Thanthai Periyar Government Arts & Science College(Autonomous)

Tiruchirappalli · 620 023

PG & Research Department of Mathematics

Thanthai Periyar Government Arts & Science College(Autenomous) Tiruchirappalli - 620 023

Signature of the Examiners

82/06/22 82/06/22

Dr.(Mrs.) R.RAZIYA BEGAM, M.Sc., M. Phil., B.Ed., M.CA., Ph.D., Associate Professor,

PG and Research Department of Mathematics,

Thanthai Periyar Government Arts & Science College (Autonomous).

Tiruchirappalli- 620 023.

CERTIFICATE

This is to certify that the Project work entitled "MAXIMUM DISTANCE BETWEEN MIDDLE PARTS IN GENERAL TREES" done under my guidance and submitted to the THANTHAI PERIYAR GOVERNMENT ARTS & SCIENCE COLLEGE (AUTONOMOUS), affiliated to the BHARATHIDASAN UNIVERSITY, TRICHY, in partial fulfillment of the requirements for the award of the degree of MASTER OF SCIENCE IN MATHEMATICS is a bonafide record of the work done by T.PRAVEENA (Register No.: 20PMA33) in the PG and Research Department of Mathematics, Thanthai Periyar Government Arts & Science College (Autonomous), Tiruchirappalli – 23, during the period 2020-2022.

Signature of the

R. R. J. Signature of Guide

Head of the department

Head of the Department
PG & Research Department of Mathematics
Thanthai Periyar Government Arts & Science College (Autonomous)
Tiruchirappalli - 620 023

Examiners

1. n. Ga ~ hely 2/6/22

2. Raziy. Par 216/22

Dr. M. MARAGATHAM ,M.Sc., M.Phil., B.Ed., Ph.D., Associate Professor, PG and Research Department of Mathematics, Thanthai Periyar Government Arts and Science College (Autonomous) Tiruchirappalli-620 023

CERTIFICATE

This is to certify that the project work entitled "CENTERED TRIANGULAR SOME LABELING OF SOME GRAPHS" done under my guidance submitted to the THANTHAI PERIYAR GOVERNMENT ARTS AND SCIENCE COLLEGE (Autonomous), Trichy-23 affiliated to the BHARATHIDASAN UNIVERSITY in partial fulfillment of the requirements for the award of the Degree of MASTER OF SCIENCE IN MATHEMATICS is a bonafide record of the work done by

REVATHI S (Reg.No:20PMA34)

in the PG and Research Department of Mathematics, Thanthai Periyar Government Arts and Science college (Autonomous), Tiruchirappalli -23 during the period 2020-2022

Signature of the

Head of the department

Head of the Department

PG & Research Department of Mathematics

Teauthai Periyar Government Arts & Science College (Autonomous) Tiruchirappalli - 620 023

1. Dr. P. SHANMUGANANTHAM

ASSO. PROF OF MATHS

Notional College

Associate Professor P.G and Research Department of Mathematics
Thanthai Periyar Government

Dr.K.PONNAMMAL,M.Sc.,M.Phil.,M.C.A.,Ph.D.,
Assistant Professor,
PG and Research Department of Mathematics,
Thanthai Periyar Government Arts and Science College (Autonomous),
Tiruchirappalli-620 023.

CERTIFICATE

This is to certify that the project work entitled "A STUDY ON SURFACES IN THE LARGE" done under my guidance submitted to the THANTHAI PERIYAR GOVERNMENT.ARTS AND SCIENCE COLLEGE (Autonomous), Trichy-23 affiliated to the BHARATHIDASAN UNIVERSITY in partial fulfillment of the requirements for the award of the Degree of MASTER OF SCIENCE IN MATHEMATICS is a bonafide record of the work done by

G.SIVA RANJANI (Reg.No:20PMA35)

in the PG and Research Department of Mathematics, Thanthai Periyar Government Arts and Science college (Autonomous), Tiruchirappalli -23 during the period 2020-2022.

Signature of the

Head of the department

PG & Research Department of machematics
Thankai Periyar Government Arts & Science College (Autonomous)
Tiruchirappalli - 620 023

Dr. K. PONNAMMAL, M.Sc., M.Phil., M.C.A., Ph.D.,

Signature of the Guide

@ 27/5/22

Periyar E.V.R. College (Autonomous) Tiruchirappalli - 620 023

EXAMINERS:

1. n. Gamike 2/6/22

2. @pranami 2/6/22 Dr. P. MARAGATHA MEENAKSHI, M.Sc., M.Phil., PBDCSA., NET., Ph.D.,

Associate Professor

PG and Research Department of Mathematics

Thanthai Periyar Government Arts and Science College (Autonomous)

Tiruchirappalli 620-023

CERTIFICATE

This is to certify the project work entitled "A Study on Multiscale Singularly Perturbed Linear System of First Order Ordinary Differential Equations" done under my guidance and submitted to the Thanthai Periyar Government Arts and Science College (Autonomous), affiliated to the BHARATHIDASAN UNIVERSITY in partial fulfilment of the requirements for the award of the degree of MASTER OF SCIENCE IN MATHEMATICS is a bonafide record of the work done by SUBASHINI. S (Reg. No. 20PMA36) in the PG and Research Department of Mathematics, Thanthai Periyar Government Arts and Science College (Autonomous), Tiruchirappalli- 620 023 during the period 2020-2022.

Signature of Head of the Department

Head of the Department
PG & Research Department of Mathematics
Thanthai Periyar Government Arts & Science College | Autonomous

Tiruchirappalli - 620 023 -

Internal Examiner

Dr. P. MARAGATHA MEENAKSHI,

M.Sc.,M.Phil. PBDCSA, CSIR-UGC NET.,Ph.D.,

Associate Professor & Research Supervisor

PG & Research Department of Mathematics Thanthai Periyar Govt. Arts & Science College (A)

Tiruchirappalli - 620 023, TAMIL NADU INDIA

2.M. 285 122

Signature of the Guide

Dr.P.MARAGATHA MEENAKSHI,
M.Sc.,M.Phil.,PBDCSA.,NET.,Ph.D.,

Associate Professor & Research Supervisor
P.G. and Research Department of Mathematics
Thanthai Periyar Government
Arts & Science College (Autonomous)

TIRUCHIRAPPALLI-620 023.

External Examiner

Dr. M. Tamil Selvi Associate Professor & Hea

SRC College, Tricky -

Dr.B.GAYATHRI, M.Sc., UGC-NET, M.Phil., Ph.D., P.G.D.C.A., M.C.A., Associate Professor
PG and Research Department of Mathematics
Thanthai Periyar Government Arts & Science College (Autonomous)
Tiruchirappalli-620 023

CERTIFICATE

This is to certify that the project work entitled "A STUDY ON CENTROIDAL AND F-CENTROIDAL MEAN LABELING OF GRAPHS" done under my guidance submitted to the THANTHAI PERIYAR GOVERNMENT ARTS & SCIENCE COLLEGE (Autonomous and Accredited), Trichy-23 affiliated to the BHARATHIDASAN UNIVERSITY in partial fulfillment of the requirements for the award of the Degree of MASTER OF SCIENCE IN MATHEMATICS is a bonafide record of the work done by

SUDHARSANA.M (Reg.No:20PMA37)

in the PG and Research Department of Mathematics, Thanthai Periyar Government Arts & Science college (Autonomous and Accredited), Tiruchirappalli -23 during the period 2020-22.

Signature of the Head of the department

Head of the Department
PG & Research Department of Mathematics
Thanthai Periyar Government Arts & Science College (Autonomous)
Tiruchirappalli - 620 023

Signature of the Guide 8

PG & RESEARCH DEPARTMENT OF MATHEMATICS
THANTHAI PERIYAR GOVERNMENT
ARTS & SCIENCE COLLEGE (AUTONOMOUS)

EXTANGENCE COLLEGE (ACTORONIC

1. N-Gamihel

2. 1. hajolo 2/6/22

Dr. P. THIRUNAVUKARASU, M.Sc., M. Phil., Ph.D., PGDCA., B.Ed., Assistant Professor, PG & Research Department of Mathematics, Thanthai Periyar Government Arts & Science College (A), Tiruchirappalli - 620 023.

CERTIFICATE

This is to certify that the Project work entitled "LIKELIHOOD RATIO ORDERING AND SOME APPLICATIONS" done under my guidance and submitted to the THANTHAI PERIYAR GOVERNMENT ARTS & SCIENCE COLLEGE(A), TRICHY-23 affiliated to the BHARATHIDASAN UNIVERSITY, TRICHY, in partial fulfillment of the requirements for the award of the degree of MASTER OF SCIENCE IN MATHEMATICS is a bonafide record of the work done by THANUPRIYA T (Register No.: 20PMA39) in the PG and Research Department of Mathematics, Thanthai Periyar Government Arts & Science College (A), Tiruchirappalli - 23, during the period 2020-2022.

SIGNATURE OF THE HOD

Head of the

Head of the Department PG & Research Department of Mathematics Thanthai Periyar Government Arts & Science College(Autonomous) Tiruchirappalli - 620 023

SIGNATURE OF TH

Dr. P. THIRUNAVUKARASU, M.Sc., M.Phil., Ph.D., B.Ed., PGDCA.,

Assistant Professor

PG & Research Department of Mathematics Thanthai Periyar Government Arts & Science College (Autonomous)
Tiruchirappalli-620 023. Tamilnadu, India

EXAMINERS

2.

M.Sc., M.Phil , Ph D., B.Ed., PGDCA.

Assistant Professor PG & Research Department of Mathematics Thanthai Periyar Government

Arts & Science College (Autonomous) Tiruchirappalli-620 023. Tamilnadu, India Dr. V. MALATHI, M.Sc., B.Ed., M.Phil., Ph.D., Assistant Professor, PG and Research Department of Mathematics, Thanthai Periyar Government Arts & Science College (Autonomous), Tiruchirappalli-620 023.

CERTIFICATE

This is to certify that the project work entitled "A STUDY ON LINEAR DIOPHANTINE EQUATION" done under my guidance submitted to the THANTHAI PERIYAR GOVERNMENT ARTS & SCIENCE COLLEGE (Autonomous and Accredited), Trichy-23 affiliated to the BHARATHIDASAN UNIVERSITY in partial fulfillment of the requirements for the award of the Degree of MASTER OF SCIENCE IN MATHEMATICS is a bonafide record of the work done by T.UMAMAHESHWARI(Reg.No:20PMA40) in the PG and Research Department of Mathematics, Thanthai Periyar Govt. Arts Science college (Autonomous and Accredited), Tiruchirappalli -23 during the period 2020-2022.

Signature of the

Head of the department

Head of the Department. PG & Research Department of Mathematics Thanthai Periyar Government Arts & Science College Autonomous Tiruchirappalli - 620 023

ASSISTANT PROFESSOR PG & RESEARCH DEPARTMENT OF MATHEMATICS THANTHAI PERIYAR GOVERNMENT ARTS & SCIENCE COLLEGE (AUTONOMOUS)

TIRUCHIRAPPALLI - 620 023.

Signature of the EXAMINERS:

1. n. Gamibali

Journ /1/5

Dr. P. THIRUNAVUKARASU, M.Sc., M.Phil., Ph.D., B.Ed., PGDCA., Assistant Professor PG & Research Department of Mathematics Thanthai Periyar Government Arts & Science College (Autonomous) Tiruchirappalli-620 023. Tamilnadu, India

Dr. B. GAYATHRI, M.Sc., UGC-NET, M.Phil., Ph.D., P.G.D.C.A., M.C.A., Associate Professor
PG and Research Department of Mathematics
Thanthai Periyar Govt. Arts and Science College (Autonomous)
Tiruchirappalli-620 023

CERTIFICATE

This is to certify that the project work entitled "A STUDY ON K BANHATTI INDEX OF GRAPHS" done under my guidance submitted to the Thanthai Periyar Govt. Arts and Science college (Autonomous and Accredited), Tiruchirappalli -23 affiliated to the BHARATHIDASAN UNIVERSITY in partial fulfillment of the requirements for the award of the Degree of MASTER OF SCIENCE IN MATHEMATICS is a bonafide record of the work done by

VALLI DEIVANAI. S (Reg.No:20PMA41)

in the PG and Research Department of Mathematics, Thanthai Periyar Govt. Arts and Science college (Autonomous and Accredited), Tiruchirappalli -23 during the period 2020-22.

Signature of the

Head of the department

Head of the Department
PG & Research Department of Mathematics
Thanthai Periyar Government Arts & Science College (Autonomous)
Tiruchirappaili - 620 023

Signature of the Guide

ASSOCIATE PROFESSOR
PG & RESEARCH DEPARTMENT OF MATHEMATICS
THANTHAI PERIYAR GOVERNMENT
ARTS & SCIENCE COLLEGE (AUTONOMOUS)

TIRUCHIRAPPALLI - 620 023.

EXAMINERS:

1. n. Gami bely

2. B. Lyou 2/6/12

Dr. P. BHARATHI, M.Sc., M.Phil., Ph.D., Assistant Professor PG and Research Department of Mathematics Thanthai Periyar Govt. Arts and Science College (Autonomous)

CERTIFICATE

This is to certify that the project work entitled "CHARACTERIZATION NUMBER, OCTAGONAL NUMBER TRIANGULAR NUMBER" done under my guidance submitted to the Thanthai Periyar Govt. Arts and Science college (Autonomous and Accredited), Tiruchirappalli -23 affiliated to the BHARATHIDASAN UNIVERSITY in partial fulfillment of the requirements for the award of the Degree of MASTER OF SCIENCE IN MATHEMATICS is a bonafide record of the work done by

VIJAYALAKSHMI. N (Reg. No: 20PMA42) in the PG and Research Department of Mathematics, Thanthai Periyar Govt. Arts and Science college (Autonomous and Accredited), Tiruchirappalli -23 during the period 2020-22.

Head of the department

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Signature of the Guide

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