

ESTD : 1990

Regd. 1025 / 1993

Ramanujan Mathematics Academy Mathematics Library & Ramanujan Museum

*Welcomes you to
participate*

28th

Ramanujan's National Mathematics Competition Sep - Nov - 2017



Organised by
A NON-PROFITABLE VOLUNTARY
MATHEMATICAL SERVICE ORGANISATION

**Ramanujan Mathematics Academy
Ramanujan Mathematics Library
Ramanujan Museum**

**RAMACHANDRAPURAM - 533 255
EAST GODAVARI DIST. ANDHRA PRADESH, INDIA**

Cell : 98492 51015 | 92939 49009 | 84659 51729

e-mail : ramanujan_1729rcpm@yahoo.com

website : ramanujaneducationalsociety.org

Aim of the Competition

Introduce Ramanujan's Mathematical power in our young Indians
and
PROMOTE MATHEMATICAL OLYMPIADS IN INDIA

MODE OF EXAMINATION

CLASS (TM & EM)	Type	No. of Problems	Max. Marks	Fee for EACH Student
4 th , 5 th , 6 th for each class	Objective	40	100	₹ 50
7 th , 8 th , 9 th , 10 th for each class	Objective	40	100	₹ 60
Junior Inter, Senior Inter (Only English Medium) for each class	Objective	40	100	₹ 70
Graduate, Post Graduate & Engineering. (Only English Medium) for each class	Descriptive	10	100	₹ 70

Preliminary Test for all classes : **03-09-2017**
(10 a.m to 12.00 Noon) Sunday

Final Test (2.00 pm - 4.00 pm) : **05-11-2017**
(Only IV to X) Sunday

Prize Distribution function : **17-12-2017**
(National level toppers only) Sunday

Note : There is no final test for Intermediate, Degree and P.G. Level.

These are the books available in Academy Library to purchase

S.No.	Name of the Title	Price
1.	GANITHA VAAHINI	- ₹ 50
2.	Model paper books with Solutions	Year 2014 Year 2015 Year 2016
	a) 4th Class Preliminary and Final(EM)	₹ 50 + ₹ 50 + ₹ 50
	b) Combined book of V and VI (EM)	₹ 50 + ₹ 50 + ₹ 50
	c) Combined book of VII and VIII(EM)	₹ 50 + ₹ 50 + ₹ 50
	d) Combined book of IX and X (EM)	₹ 50 + ₹ 50 + ₹ 50

3. Olympiad Foundation material (Mathematics, Physics and Chemistry)
(All modules contained in one book)

a) VII - 5 modules	₹ 300
b) VIII - 5 modules	₹ 300
c) IX - 5 modules	₹ 300
d) X - 3 modules (Separate books)	₹ 180

D.D. drawn in favour of “**The Secretary, Ramanujan Educational Society**” payable at Ramachandrapuram, State Bank of India, Pasalapudi Branch - Code 18023, East Godavari District., A.P., (or) can be sent through M.O.

≡ **Other Bank Code Numbers of Ramachandrapuram, E.G.Dt.** ≡

Andhra Bank - 0000467, **SBH** - 0021166,

ICICI Bank - 0000483, **Syndicate Bank** - 3257, **HDFC Bank** - 0002975

Enclosures : All the heads of the **schools / colleges** are requested to send the list of the participants in **EXCEL Sheets** only in the following format.

- 1) S.No.
- 2) Name of the student
- 3) Class

5) Regd. Numbers.

6) Preliminary Marks

*These two columns will be
filled by Academy Office*

- 2) Nominal Rolls can be sent through e-mail to
ramanujan_1729rcpm@yahoo.com in **Excel Format.**

Last Date for submission of List of Participants
through Institutions only is

15-08-2017



NOTE THE FOLLOWING IMPORTANT POINTS

1. **Spot registrations for preliminary test are not allowed.**
2. In each district there is only one examination centre for final test. If the number of centres in any district is more than 50 then other centres is allowed.
3. In each class the top 10% of the participants from preliminary test will be taken for FINAL TEST IN EACH EXAMINATION CENTRE WITH 60% MARKS. No changes in the names of final participants.
4. The fee paid once is not refundable.
5. Academy has every right to take final decision in all matters if necessary.
6. Soon after the releasing the preliminary and final results contact for any information in this regard within **ONE MONTH**. Later correspondence will not be entertained.

Follow up activities

1. Award Mathematical books, Mementoes and Merit Certificates to the toppers in each class in each examination cluster according to the total number of participants.
2. National level prizes will be awarded to High School and Intermediate level.
3. Free coaching camps will be conducted for the National level toppers for attending mathematics olympiads i.e., Regional Mathematics Olympiad (R.M.O) and Indian National Mathematics Olympiad (I.N.M.O) etc.,
4. The National and state level toppers will be treated as one year free members of our "MATHEMATICS LIBRARY".
5. In High School level and Intermediate level National first ranker is awarded with cash prize Rs.1,000/- and second ranker with ₹ 500/- If the number of rankers is more than one the amount will be shared.

Contact our Academy

A non profitable Voluntary Mathematical service organisation Ramanujan Mathematics Academy and Mathematics Library conducts the following activities in educational institutions in the form of workshops, seminars, lectures, classes etc.

- 1) History of Mathematics and its Culture.
- 2) Recreational Mathematics.
- 3) Ganitha Avadhanam.
- 4) I.I.T - Olympiad Foundation classes for 6th, 7th, 8th, 9th and 10th (Mathematics, Physics and Chemistry).
- 5) Classes on Mathematics Olympiads i.e., Regional Mathematics Olympiad (R.M.O) and Indian National Mathematics Olympiad (I.N.M.O) in high school level.
- 6) Non-routine Mathematical problems
- 7) On different Mathematical items i.e., Number Theory, Plane Geometry, Algebra, Inequalities etc.,
- 8) Life histories of Indian/World Mathematicians and their contributions
- 9) Science expo in high school level.
- 10) Designing mathematical laboratories.

SYLLABI

IV CLASS

- ▶ 1) Number system 2) Additions, Subtractions, Multiplications, Divisions. 3) Even, Odd, Prime and Composite Numbers 4) Divisibility rules 5) Factors, Multiples.

V CLASS

- ▶ 1) Number system 2) Even, Odd, Prime and Composite Numbers 3) Divisibility rules 4) Factors, Multiples, L.C.M., G.C.D. 5) Fractions 6) Decimals.

VI CLASS

- ▶ 1) Numbers - Number system, 2) Whole numbers, 3) Integers 4) Rational Numbers 5) Basic Geometric concept 6) Basic algebraic knowledge 7) Basic knowledge of rectangles, squares and triangles 8) Fractions, Decimals 9) Basic Number Theory.



VII CLASS

- 1) Integers 2) Fractions, Decimals and Rational Numbers
3) Simple equations 4) Lines and Angles 5) Triangle and
Properties 6) Ratio and Proportion 7) Congruency and
construction of Triangles 8) Algebraic expressions 9) Exponents
10) Problem based on Number theory.

VIII CLASS

- 1) Rational Numbers 2) Solving Equations 3) Basic
Geometric Knowledge 4) Exponents and Powers 5) Ratio
and Proportion 6) Square Roots and Cube Roots 7) Basic
Algebraic Knowledge 8) Area of Plane figures 9) Problem based on
Number theory. .

IX CLASS

- 1) Real Numbers 2) Polynomials and Factorisation 3) Plane
and Co-ordinate Geometry 4) Solving Equations 5)
Algebraic Knowledge 6) Triangles and Quadrilaterals 7)
Surface areas and Volumes 8) Problem based on Number theory.

X CLASS

- 1) Real Numbers 2) Sets 3) Polynomials 4) Pair of Linear
Equations in two Variables 5) Quadratic Equations
6) Similar Triangles 7) Tangents and Secants to a circle
8) Mensuration 9) Trigonometry 10) Statistics 11) Problem
based on Number theory.

INTER FIRST YEAR

- IA** - 1) Functions 2) Mathematical Induction 3) Matrices
4) Trigonometry upto Heights and Distances.
-

- IB** - 1) Locus 2) Change of Axes 3) Straight Lines 4) Pair of Straight
Lines 5) Limits and Continuity 6) Derivatives.

INTER SECOND YEAR

- IIA** - 1) Quadratic Equations 2) Theory of Equations
3) Permutations and Combinations 4) Binomial Theorem.
-

- IIB** - 1) Successive Differentiation 2) Integration
3) Definite Integral 4) Circles
5) System of Circles 6) Parabola.

GRADUATE,
POST GRADUATE
AND
ENGINEERING

Knowledge of basics in Mathematics upto intermediate level to solve non-routine problems in innovative approach with elegant solutions:
Topics : 1) Algebra, 2) Plane and Co-ordinate Geometry, 3) Inequalities 4) Trigonometry 5) Calculus.

*Note
to all
Classes*

For all the above Classes, History of Mathematics based on their text book and thought provoking problems on reasoning and logic are also to be cover as the foundation knowledge of pre R.M.O., R.M.O. and I.N.M.O.



JOIN
AS LIFE MEMBER
GANITHA VAAHINI
(English Version only)
releases regularly in the month of
Jan/April/July/Oct.

"GANITHA VAAHINI" is the official quarterly journal of *Ramanujan Mathematics Academy, and Mathematics Library and Ramanujan Museum* for students, teachers, lecturers and mathematical lovers for all levels.

Main features of GANITHA VAAHINI

- Non-routine problems and their solutions
- Life history and their Mathematical contributions of Indian and World Mathematicians.
- Recent mathematical developments...
- Puzzles, Rare Formula, Recreational Mathematics etc...

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MEMBERSHIP FORM

1. Name of the Applicant :

2. Qualifications :

3. Date of Joining as member :

4. Address for Communication :

(Residence and Office)

with Cell / Phone (STD-Code) :

5. If you are a member of other Mathematical
organisations please inform :

6. Interesting branches of Mathematics

7. Research Field :

8. e-mail / Website :

9. M.O. / D.D. Particulars :

Affix your
recent
passport size
photo

Signature of the Applicant

Note : Take separate DTP form and send.

for M.O. / D.D. drawn in favour of **“The Secretary, Ramanujan Educational Society” payable at Ramachandrapuram, East Godavari District., A.P only** (or) can be sent through M.O.

See third page of this brochure for bank code numbers.