

L (50th) NATIONAL MATHEMATICS TALENT CONTESTS

*Last date for Response
15 – 07 – 2018*

Organised by

The AMTI

[**The Association of Mathematics Teachers of India – (Regd.)**]

Office

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For more details please see our website (NMTC head)

The **AMTI** is a pioneer organization in promoting and conducting Mathematics Talent Tests in India. Last year (in the 49th National level tests) 1,24,170 students from 645 institutions spread all over India participated at the screening level. About **10%** of them were selected for the finals Merit certificates and prizes were awarded to the deserving students selected at the final.

30 + 5 girls among them from **Tamil Nadu** and **Puduchery** from classes 9 to 11 levels were sponsored to write the INMO 2017.

We now announce the 50th Inter - State Competitions.

AIM OF THE TESTS

To discover and encourage students who have the capacity for original and creative thinking, readiness to attack unfamiliar and non-routine problems exhibiting a general mathematical ability appropriate to their level.

PARTICIPANTS:

Students from Schools, Junior Colleges of all boards, Degree Colleges and Technological Institutions in India and also Schools affiliated to the CBSE abroad.

1	Primary	Gauss Contest	V and VI Standards
2	Sub-Junior	Kaprekar Contest	VII and VIII Standards
3	Junior	Bhaskara Contest	IX and X Standards
4	Inter	Ramanujan Contest	XI and XII Standards
5	Senior	Aryabhata Contest	Degree Classes in Arts, Science & Technical Institutions

MEDIUM : English, Gujarati, Hindi, Kannada, Malayalam, Marathi, Tamil or Telugu

The medium for Senior Level is English only.

CHARGES :

Rs. 50/- per candidate (out of which **Rs.10/-** only will be retained by **the institution** for all expenses and **Rs.40/-** per candidate to be sent to AMTI.)

SYLLABUS:

The syllabus for **Mathematics Olympiad** (Regional, National and International) is pre-degree college mathematics. The areas covered are, mainly –

a) Algebra, b) Geometry, c) Number theory and d) Graph theory & combinatorics

Algebra: Polynomials, Solving equations, inequalities and complex numbers.

Geometry: Geometry of triangles and circles.

(Trigonometric methods, vector methods, complex number methods, transformation geometry methods can also be used to solve problems)

Number Theory: Divisibility, Diophantine equations, congruence relations, prime numbers and elementary results on prime numbers.

Combinatorics & Graph Theory: Counting techniques, pigeon hole principle, principle of inclusion and exclusion, basic graph theory.

Problems pertaining to these concepts will be of non-routine type with difficulty level increasing from **RMO** to **INMO** to **IMO**.

Further to motivate this type of thinking from Class V onwards questions solvable with clear knowledge of concepts introduced to them applied to problem solving will be set for **Primary (V & VI), Sub-Junior (VII & VIII), Junior (IX & X) and Inter (XI & XII)**.

A glance at the Questions & Solutions of previous years from the books published by the AMTI will facilitate students at all levels to understand the nature of Olympiad examinations. Please see details in our website **amtionline.com**

MODE OF EXAMINATION

1. Your institution shall be the centre for your students and the Principal or the person authorized by him/her shall be in charge of the proper conduct of the examinations for the **PRELIMINARY LEVEL**.
2. Individuals applying directly to AMTI will be intimated the center at which they should take the examination
3. Every candidate **except the senior level** will take two tests- **Preliminary Test** and **Final Test**. See details below.

Preliminary Test:

It will consist of objective type questions **in multiple choice types and fill in the blanks, each about 50% of the total.**

The responses in the preliminary test will be written in the **response sheet** to be sent by the AMTI. Preliminary test will be conducted in your institution and **also evaluated BY YOU** and the **top about 10% scorers** only at each level in the **Preliminary Test** will be intimated to us.

For such selected candidates **certificates alone will** be sent which will form the **Hall Ticket** for final examination.

Final Test:

It will consist of essay type questions. It will be conducted in **chosen centres** only in the respective states and the **students appearing for the final tests shall write the test only in the centres allotted by the AMTI.**

Special Note:

Answered answer books of the final test are to be dispatched on the same day of the examination and delayed receipts may not be entertained.

4. Senior Level students (college degree level) will take only the final test.

5. For the final test, **papers for writing answers will be** supplied by AMTI and the cover page may be duly filled. *The names should be the same as those selected at the preliminary level only.*

6. **On no account the date and time of the examination be altered by the centres.**

7. In all matters the decision of the AMTI is final.

TIME SCHEDULE	
Last Date for entries	15-07-2018 *
Preliminary Test	1st September 2018 , (Saturday) 2 to 4pm
Despatch of 10% best results	05-09-2018 by speed post/courier
Final Test	3rd November 2018 (Saturday) 1 to 4 pm
Despatch of Answer Books	Same day (only by Speed post)
Announcement of Results	By the end of the December 2018

*** late entries may not be entertained**

FOLLOW UP PROGRAMME:

Cash Awards to the top 3 winners in each level at the finals, (1st position Rs.5000/-, 2nd Rs.2500/- and 3rd Rs.1250/-), Merit Certificates for them and others selected at the final level with some cash award for the latter also will be given based on their revealing a reasonable level of mathematical maturity. Enrichment contact courses are likely to be organized for the promising toppers.

DOCUMENTS TO BE SENT TO AMTI

- (a) A self addressed, post card of postal dept. for acknowledgement of receipt of data sheet and DD.
- (b) The filled in Data Sheet and
- (c) A Demand Draft in favour of

“The Association of Mathematics Teachers of India” or AMTI, payable at Chennai for the amount to be sent to AMTI (namely, Rs. 40 × number of entries – only for institutions).

**** Rs. 50/- for students applying direct to AMTI.**

Local institutions may pay by cash against receipt
The amount paid once is not refundable on any account.
Online payment also accepted.

*** ENTRIES WITHOUT THE DATA SHEET WILL NOT BE ENTERTAINED ***

All correspondence regarding the competitions must be addressed to:

The General Secretary,
**The Association of Mathematics
Teachers of India (The AMTI)**
*B-19, Vijay Avenue, Old No 37, New No 85,
Venkatarangam Street, Triplicane,
Chennai – 600 005.
044-28441523*

SPECIAL POINTS TO NOTE

1. **Entries in the proforma enclosed only will be processed.**
2. Last date of receipt here, in our office at Chennai will be **15th July 2018** for entries and DD or cash.
3. **The exact registered name of the institution as in bank should be incorporated in the application form. There have been instances of names not registered suitably with post offices and banks as our communications were not delivered. It is to be ensured by the applying institution.**
4. For **final examination candidates should report only at the centres fixed and no change will be permitted.** If for any reason they are unable to do so they will forfeit the chance. No further claim will be entertained. **Candidates may report with photo ID cards issued by respective institutions where they study in the centre for taking the final exam along with our certificate of the preliminary exam.**
5. Results are declared after taking enough care, checking and cross checking only. No claim for change communication of individual scores etc., will be entertained.
6. Communications are sent by post or courier well on time. **Individual reminders cannot be done** except for emergency by telephone or email.
7. This **being a talent contest at all India level for final, marks alone do not speak. We may decide merit holders by interviews also, if found necessary.**
8. Centres for final level will be intimated to participating schools later well on time.

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**** Individuals applying direct to AMTI will be entertained only if they send an acceptance letter from a teacher / Principal / Professor - serving or retired to hold the exam. on the day and time to the candidate and send us the response sheet / answer book as case may be. any clarification from them may be sent by email to nmtc@amtionline.com well ahead for AMTI to respond.**

Dates of remembrance:

Last date for entries to reach the AMTI	:	15.07.2018
Question packets/ message on it from the AMTI to reach the institution, latest by	:	10am 01-09-2018
Preliminary Test	:	01st September 2018 (Saturday) 2pm to 4pm
10% best results reached to AMTI	:	05-09-2018
Final Test	:	03 November 2018 (Saturday) 1pm to 4 pm
Despatch of Answer Books	:	Same day (only by Speed post)
Announcement of Results	:	By the end of the December 2018
