

Institute of Mathematics Education

यथा शिखा मयूराणां ।
नागानां मणयो यथा ॥



तद्वद् वेदांगशास्त्राणां ।
गणितं मूर्धनि स्थितम् ॥

Just as the crest of the peacock and the gem of the cobra, stays right at the top, similarly study of Mathematics is the topmost among the study of all Vedas and Shastras.

Call : 810 401 1965 / 981 952 2702

Website : www.aiime.org | Email : imethane@gmail.com

All India Junior Maths Olympiad

Mathematical Competition

(Academic Year 2021-22)



For Std. V / VI & VII / VIII - Preliminary Exam
Maths Aptitude Test - 2021 (All India Level)

Group	Mock Test	MAT 2021	Time	Registration fee	Last date of Registration
Primary (Std. 5 th , 6 th)	4 th Sept. 2021	25 th Sept. 2021	1:00 p.m. to 3:00 p.m.	Rs. 350/-	15 th Aug. 2021
Higher Primary (Std. 7 th , 8 th)	4 th Sept. 2021	25 th Sept. 2021	4:00 p.m. to 6:00 p.m.	Rs. 350/-	15 th Aug. 2021

This year due to Corona pandemic, MAT 2021 will be conducted in online mode. For the benefit of students, we will conduct Mock test as per details mentioned above. Students will appear for both these exams from their homes.

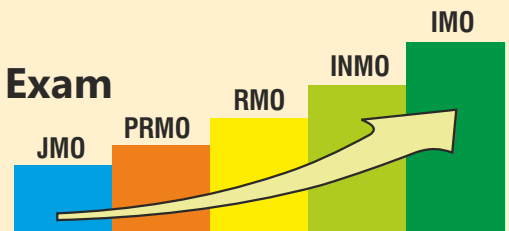
Exam must be taken by using laptop or desktop only. Use of mobile is not allowed. Date of examination is subject to change due to pandemic situation and as per government guidelines.

Registration of MAT 2021 will be done online. Please find a link here : -

<https://www.payumoney.com/customer/users/paymentOptions/#/8ECC3175F6C3E4CE582E60660F30FE53/link7/215560>



For Std. V / VI & VII / VIII - Final Exam
Junior Maths Olympiad - 2021
(All India Level)



Students scoring 50% and above in MAT exam become eligible to appear for JMO.

We will conduct JMO 2022 in the month of Jan / Feb 2022.

Due to current pandemic situation, we are unable to announce any more details now. Please check the website regularly.

Junior Maths Olympiad 2021

For Class V, VI, VII & VIII students (ICSE, CBSE, State Board Schools)

An Appeal

Dear Principals, Maths Teachers & Parents,

Greeting from the Institute of Mathematics Education!

We, at IME, have been dedicated to the cause of nurturing excellence in Mathematics, for several years now. Our endeavor is to stimulate the spirit of enquiry, innovation and creativity amongst children through activities that make Mathematics an enjoyable and interesting pursuit. One such activity that the IME conducts is the Junior Maths Olympiad (JMO).

JMO serves as a strong preparatory foundation for the Pre Regional Maths Olympiad (PRMO), conducted by Homi Bhabha Centre for Science Education under National Board of Higher Mathematics, Government of India. So far 54075 students have appeared for MAT and 8379 for JMO. One such JMO Gold Medalist student represented India in International Olympiads of Physics and Astronomy and won laurels for the country. You will find more about Olympiads on the last page of the brochure.

We are aware that you are always taking initiative in making learning interesting and meaningful for students. We look forward to your support, in our endeavor to ignite the spark of curiosity and learning in young minds.

MAT : Maths Aptitude Test

It is conducted in two groups.

- Primary Level : Std. V & VI
- Higher Primary Level : Std. VII & VIII

Students scoring 50% and above in MAT exam become eligible to appear for JMO.

How to register for MAT ?

This year due to Corona Pandemic, registration for MAT 2020 will be done online. Please visit our website www.aiime.org for more details. Please find a MAT registration link here : -

<https://www.payumoney.com/customer/users/paymentOptions/#/8ECC3175F6C3E4CE582E60660F30FE53/link7/215560>

Syllabus for MAT

Primary Level :

- 1) Study of Numbers including Basic Operations on Numbers, Even/ Odd/ Prime/ Composite Numbers and Tests of Divisibility. Also G.C.D. & L.C.M.
- 2) Fractions and Decimal fractions
- 3) Metric Measures
- 4) Roman Numerals
- 5) Time and Calendar
- 6) Equations using Letters, Inequality and Simplification of Expressions
- 7) Unitary Method
- 8) Perimeter and Area
- 9) Profit and Loss
- 10) Percentage

Higher Primary Level :

- 1) G.C.D. & L.C.M.
- 2) Ratio-Proportion
- 3) Percentage
- 4) Profit and Loss
- 5) Simple & Compound Interest
- 6) Average
- 7) Distance, Time & Speed
- 8) Time & Work
- 9) Squares, Square roots, Cubes, Cube roots
- 10) Indices
- 11) Equations in One Variable
- 12) Factorization of Algebraic Expressions & Identities
- 13) Lines & Angles
- 14) Triangles & Pythagoras Theorem
- 15) Area, Surface Area & Volume
- 16) Circle - Chords & Tangents
- 17) Polygon

About MAT Question paper (Primary and Higher Primary Group)

It consists of 50 MCQs (Multiple Choice Questions)

Each Question carries 2 marks.

Each question is provided 4 options, of which ONLY ONE is correct.

Students are supposed to darken appropriate circle on the OMR sheet provided.

There is no negative marking.

Q. 1 to Q. 45 are of easy to moderate level of difficulty.

Q. 46 to Q. 50 are of higher level of difficulty.

For Higher Primary group, Q. 1 is based on syllabus of primary group.

Study material for MAT :

This year due to Corona pandemic, study material will be available in the online mode only on our website.

Study books are available for both the groups.

Topicwise last TEN YEARS question papers with answer keys are also available for both the groups.

Please find the link here :- <https://imethane.in/2-home>

Awards for MAT

Students Scoring

- 1) 40% to 49% : Passing Certificate
- 2) 50% to 89% : Selection Certificate
- 3) 90% and above : Selection Certificate and prize (JMO study material)



JMO 2022 (Junior Maths Olympiad)

Candidates scoring 50% and above in MAT 2021 are eligible to appear for JMO 2022.

How to register for JMO ?

Due to pandemic situation, we are unable to share more details now. Please check website regularly.

Syllabus for JMO

Primary Level

- | | |
|---|-------------------------------|
| 1) Divisibility | 5) Numbers of Different Bases |
| 2) Prime Numbers and Some Special Numbers | 6) Sequences & Series |
| 3) Crypt Arithmetic | 7) Magic Square |
| 4) Permutation | 8) Basic Concepts of Geometry |

Higher Primary Level

- | | |
|---|--|
| 1) Divisibility including Euclidian Algorithm | 5) Permutation and Combination |
| 2) Modular Arithmetic including Congruence, Applications of Wilson Theorem, Euler Theorem | 6) Sequence and Series including A.P, G.P. H.P., A.M., G.M., H.M. |
| 3) Quadratic Equations | 7) Geometry including Straight Lines, Triangles - Similar and Congruent, Circles, Cyclic Quadrilaterals. |
| 4) Sets, Relations and Functions | |

About JMO Question Paper

This is subjective type of examination.

A question paper consists of 13 questions.

Q.1 to Q.5 carry 6 marks each.

Q.6 to Q.10 carry 8 marks each.

Q.11 to Q.13 carry 10 marks each.

Students have to write answer below the question in the space provided. We provide separate space for rough work. Main aim of this exam is to test understanding of concepts. Hence explanation given by students with logical approach is important.

Study Material for JMO :

Study books as well as past year papers are available. You can avail study material by making an online payment on our website. Study material will be couriered to your residence address.

Please find the link here :- <https://imethane.in/2-home>

Awards for JMO

Cut off for Selection of students for awards is decided by Examination Committee. Following awards are distributed to meritorious students.

- 1) Ramanujan Scholarship : Rs. 1000/- with certificate and gold medal.
- 2) Kaprekar Scholarship : Rs. 500/- with certificate and silver medal.
- 3) Consolation prize : Merit certificate with prize



JMO 2020 : Schools Winning Medals

Sr. No.	School Name	Gold Medal		Silver Medal		Total
		V/VII	VII/VIII	V/VI	VII/VIII	
1	Sulochanadevi Singhanian School, Thane	4	7	5	5	21
2	St. Joseph Convent Secondary School, Jalgaon	-	2	4	4	10
3	Vasant Vihar High School, Thane	-	1	5	2	8
4	Apeejay School, Nerul	1	1	1	2	5
5	Omkar International School, Dombivali	-	4	1	-	5
6	D.A.V. Public School, Thane	1	1	2	1	5
7	Vidya Niketan, Dombivali	-	-	2	2	4
8	Hiranandani Foundation School, Powai	-	1	2	1	4
9	Smt. K. C. Gandhi School, Kalyan	1	1	1	-	3
10	Fr. Agnel Multipurpose School, Vashi	-	-	2	-	2

About Mathematics Olympiads

The National Board of Higher Mathematics (NBHM) was set up by Government of India under the Department of Atomic Energy (DAE) in the year 1983 to foster the development of Higher Mathematics in the country.

The Mathematics Olympiad activity was undertaken by NBHM from 1986 and is currently run in collaboration with Homi Bhabha Centre for Science Education, Mumbai. Main purpose of this activity is to support mathematical talent among high school students of our country.

To reach IMO (International Mathematical Olympiad), students have to go through following stages.

- i) PRMO (Pre Regional Mathematical Olympiad)
- ii) RMO (Regional Mathematical Olympiad)
- iii) INMO (Indian National Mathematical Olympiad)



For more information, you may visit following sites :
www.hbcse.tifr.res.in & www.nbhm.dae.gov.in

OUR JMO CHAMPIONS



Amey Patwardhan

JMO 2013 Gold Medalist.
He represented India in International Olympiad of Physics and Astronomy in 2017 and won Gold medal for the country.
Currently pursuing BS (Research) at IISc-Bangalore.



Atharva Korde

JMO 2010 Gold Medalist.
He cleared PRMO, RMO, INMO successfully. He was among top 20 students who were selected for training of International Mathematics Olympiad at Homi Bhabha Centre for Science Education in the year 2014.
Graduated from IIT Bombay and also worked as faculty for INMO. Currently pursuing Ph.D. from University of British Columbia.