



TRIPURA MATHEMATICAL SOCIETY

In collaboration with

Tripura State Council For Science & Technology

APPLICATION FORM For Junior Mathematical Olympiad - 2024

(for the students studying in Class - VIII)



1. Name of the candidate (in BLOCK letters) SRI/SMT
2. a) Name of the Father:.....
b) Name of the Mother:.....
3. Residential Address..... Ph. No.....
4. Name of the School/Institution with Address
5. Class-VIII
6. Date of Birth
7. Sex : M/F
8. Medium : Bengali / English

Counter Signature of the Head of the School / Institution with seal candidate

Full Signature of the

JMO Roll..... No.....

For office only

A D M I T

Roll..... No.

Sri/Smt. * (Name of the candidate)

of..... * (Name of the institution)

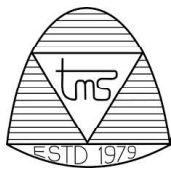
at the **Junior Mathematical Olympiad 2024** to be held on **10th November, 2024** from **12 Noon to 2 PM.**

| Name of the Sub-Division | Centre : Name of the School / Institution |
|--------------------------|---|
| | |

Date _____

General Secretary (TMS) / Centre-in-charge,
Sub-Division/Nagar Panchayats,
JUNIOR MATHEMATICAL OLYMPIAD -2024

* To be filled in by the Candidate



TRIPURA MATHEMATICAL SOCIETY



In collaboration with
TRIPURA STATE COUNCIL FOR SCIENCE & TECHNOLOGY

Website : www.tmsagartala.in

e-mail : tms.agartala@gmail.com

INFORMATION BROCHURE

for JUNIOR MATHEMATICAL OLYMPIAD (JMO-2024)

(for the students studying in Class - VIII)

1. SYLLABUS:

TOTAL MARKS: 60

A. ARITHMETIC:

(1) Rational Numbers : Natural numbers, Prime numbers, Whole numbers, Integers, Rational numbers, Factors of integers, Fraction and Decimals, HCF, LCM of integers and fractions, Simple applications.

(2) Squares and Square roots - application to simple problems.

(3) Cubes and Cube roots.

(4) Comparing Quantities: Ratio & Percentage, Profit & Loss, Cost price, Selling price, VAT, Simple and Compound Interest-Simple applications.

(5) Direct & Inverse proportions.

(6) Playing with numbers: Test of divisibility (3, 5, 7, 8, 9, 10, 11, 13).

B. ALGEBRA :

(1) Linear Equation in One Variables: Formation & their solution.

(2) Algebraic Expression and Identities: Use of formulas of the form: $(a+b)^2$, $(a-b)^2$, a^2-b^2 , $(a+b+c)^2$, Simple applications.

(3) Exponents and Powers: Laws and applications.

(4) Factorization: Factors of a quadratic expression/ $(x+a)(x+b)$, Factorization using identities in (2), Division of algebraic expressions.

(5) Graphs: Bar graph, Pie-chart, Line graph, Histogram and their applications.

(6) Data-handling: Organizing data, Frequency, Tally Mark. Frequency distribution, Class interval. Class mark, Class boundaries.

C. GEOMETRY :

(1) Quadrilaterals: Lines and Angles, Classification of Triangles and Quadrilaterals, Trapezium, Kite, Parallelograms, Rectangles, Squares, Rhombus, Regular and irregular Polygons; their properties and applications.

(2) Practical geometry: Applications of the theorems on triangles, Quadrilaterals, Polygons, etc. Construction of triangles, Quadrilaterals with given measures. Construction of angles with a given measure.

(3) Solid Shapes: Cube, Cuboid, Cone, Cylinder, Convex and regular polyhedrons, Prism and Pyramid.

(4) Mensuration -Area, Surface area, Volume of different shapes.

There shall be 27 questions divided into three groups A, B, C.

2. INSTRUCTION :

Group A shall consist of 12 questions of multiple choice (four) with only one correct answer and carrying two marks each. 1/2 mark will be deducted for incorrect answer.

Group B shall consist of 12 questions carrying 2 marks each and the candidates have to write the answers only.

Group C shall consist of 3 problems carrying 4 marks each. A candidate has to solve the problems in details.

3. EXAMINATION SCHEDULE

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|--|--|
| a. Date of the Examination | : 10 th November, 2024 |
| b. Duration of the Examination | : 2 (two) hours (Time : 12 Noon to 2 PM) |
| c. Last date of submission of filled in form | : 25 th October, 2024 |
| d. Date of publication of result (all Sub-divisions) | : 9 th December, 2024 |

4. AWARDS : First 10 successful candidates of each sub-division will be awarded prizes and certificates at respective Sub-Divisions. First 30 position holders at the State Level will be awarded prizes and certificates of merit at Agartala.

5. SUBMISSION OF FORMS : Every sub-division will have one examination centre and filled in forms of the candidates will be submitted to the officer of the Centre -in-charge of JMO of each sub-division/Gen. Secretary, TMS (in Sadar Sub-division area).

6. The candidates may take the Geometry box in the Examination Hall but not the calculator.

Contact No.

1. Prof. Debasish Bhattacharya, President, TMS, 8787813370
2. Sri Anjan Biswas, 7005843203
3. Sri Prasenjit Roy, 7005590413

Dr. Jaydip Bhattacharya
General Secretary
Tripura Mathematical Society
Mobile : 9436180490