

JMMC SRINIVASA RAMANUJAN MEMORIAL
14th MATH TALENT SEARCH EXAM
2021-2022 (ALL INDIA)

For Class – (I - XII) + CLASS - XIII (THE CATEGORY OPEN TO ALL)

Rules & Regulations:

LAST DATE of FORM SUBMISSION (LEVEL - 1) 1st October ,2021

LEVEL 1

Exam Date : 3rd October, 2021. (SUNDAY)

Time :

CLASS 13 – 6:00 A.M to 7:00 A.M

CLASS 12 – 7:15 A.M to 8:15 A.M

CLASS 11 – 8:30 A.M to 9:30 A.M

CLASS 1 – 9:45 A.M to 10:45 A.M

CLASS 2 – 11:00 A.M to 12:00 NOON

CLASS 3 – 12:15 P.M to 1:15 P.M

CLASS 4 – 1:30 P.M to 2:30 P.M

CLASS 5 – 2:45 P.M to 3:45 P.M

CLASS 6 – 4:00 P.M to 5:00 P.M

CLASS 7 – 5:15 P.M to 6:15 P.M

CLASS 8 – 6:30 P.M to 7:30 P.M

CLASS 9 – 7:45 P.M to 8:45 P.M

CLASS 10 – 9:00 P.M to 10:00 P.M

Login ID & password of student account will be sent to their registered email within 27th September, 2021.

LEVEL 2

Exam Date : 16th January, 2022. (SUNDAY)

Time :

CLASS 13 – 6:00 A.M to 7:00 A.M

CLASS 12 – 7:15 A.M to 8:15 A.M

CLASS 11 – 8:30 A.M to 9:30 A.M

CLASS 1 – 9:45 A.M to 10:45 A.M

CLASS 2 – 11:00 A.M to 12:00 NOON

CLASS 3 – 12:15 P.M to 1:15 P.M

CLASS 4 – 1:30 P.M to 2:30 P.M

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CLASS 7 – 5:15 P.M to 6:15 P.M

CLASS 8 – 6:30 P.M to 7:30 P.M

CLASS 9 – 7:45 P.M to 8:45 P.M

CLASS 10 – 9:00 P.M to 10:00 P.M

Students can participate to LEVEL -2 EXAM from their account on 16th January 2021 on scheduled time (Before 29th November 2021 registration fees for level 2 exam must be deposited to avoid cancelation of candidature) .

A student must score 30% or more in LEVEL- 1 EXAM to get chance to participate in LEVEL- 2 EXAM.

Question Pattern: For BOTH EXAMS (LEVEL 1 & LEVEL 2): M.C.Q containing 60 questions (ONLINE MODE).

Marking Procedure : 5 Marks will be awarded for each correct answer and there is no negative marking for wrong answer in Level - 1 Exam. But only in Level - 2 Exam, 2 marks will be deducted for every wrong answer.

Answering Process : ONLINE MODE with computer or smart phone from student's place.

Version of Question : ENGLISH

Date of Announcement of Result of Level -1 Exam : 24th October, 2021 at 11 P.M at www.mathjmmc.in.

Date of Announcement of Result of Level -2 Exam : 20th January, 2022 at 11 P.M at www.mathjmmc.in.

Prizes will be sent to the eligible student's place within One Month of declaration of the LEVEL 2 result.

Prizes : (For LEVEL- 2 Exam) :

First **15 RANKERS** of each Class throughout India will be awarded **Books, Medals and Mementoes (For 1st Rankers).**

ALL THE PARTICIPANTS will be given online - certificates mentioning marks and grades from JMMC -RF.

NOTE : A student must score **60% or more in LEVEL-2 EXAM** to get their name enlisted in the merit list. Only the top 15 meritorious students from each class (at least 60% marks holders) from the merit list will be considered as rankers.

Each LEVEL -1 Exam Form Costs **Rs.270/-**

Each LEVEL- 2 Exam Form Costs **Rs.495/-(For only those students who qualify the Level - 1 Exam)**

Students can individually fill up the form at www.mathjmmc.in through the given link and get registered for the exam by making the payment through the Pay U money payment gateway. The students will get the Login ID and password after successful payment of the registration fees. The login ID and password will be approved by us through an email to their registered email ID.

An expression of our good will.....

Every student will feel happy and proud to know that a part of the proceeds from the sale of this form will go to help some of their poor and meritorious friends ---- A TOKEN OF OUR SINCERE DESIRE IN THE SERVICE OF THE NATION.

Contact :- +913325224106, +918585856766 , +918585028121 (WhatsApp)

Email :- talentsearch@mathjmmc.in , jmmcinstitution2007@gmail.com , jmmcrf2007@gmail.com

**JMMC SRINIVASA RAMANUJAN MEMORIAL
14th MATHEMATICS TALENT SEARCH EXAM
ALL INDIA -(2021-2022) (online)**

SYLLABUS

CLASS - I Number Sense, Computation Operations, Addition, Subtraction, Multiplication, division, Reasoning and Aptitude.

CLASS - II Formation of numbers and counting system, Multiplication and Division, Prime numbers, Divisibility, Fractions and Decimals, Measurements and Units, Measurement of time, Reasoning and Aptitude.

CLASS - III Number system, Additions, Subtraction, Multiplication, Division, Fractional Numbers, Money, Time measurement, Measurement (Length, Mass, Capacity), Calendar, Average, Reasoning and Aptitude.

CLASS - IV Number system, Additions, Subtraction, Multiplication, Division, Multiples & Factors, H.C. F, L.C.M, Fractional Numbers, Additions & Subtraction of Fractions, Multiplication & Division of Fractions, Decimal fraction, Unitary Method, Average, Measurement of time, Measurement & Metric System (Length, Mass, Capacity), Reasoning and Aptitude.

CLASS - V Number system, Addition, Subtraction, Multiplication, Division, Factors and Multiples, Fractions and Decimal fraction, Metric system, Area of a rectangle & Square, Volume of Rectangular Paralleopiped, Unitary System, Simplification, Clock, Reasoning and Aptitude.

CLASS - VI Number system, H.C.F and L.C.M, Fractions, Decimal fraction and recurring decimals, Simplification, square root, percentage, Average,

Measurement and Metric system, Unitary method, Ratio and proportion, Area and Perimeter, Algebra-Idea of variables, Geometry-point, Line, Line Segment, Ray, Angles, Circle, Different Geometrical shapes, Geometry of solids, Symmetry, Reasoning and Aptitude.

CLASS - VII Number System, Fractions, Decimal Fraction, Square root of fractions, Simplification, Unitary method, Ratio and proportion, Time and Distance, Laws of Indices, Graph, Algebra-Application of formulae, Factorization, Parallel and transverse lines, Properties of Triangles, Congruency, Area and Perimeter of quadrilaterals, Symmetry, Reasoning and Aptitude.

CLASS - VIII Number System, Simplification, Cube root, Rule of three, Percentage, Mixture, Time and Distance, Time and Works, Graph, Pie chart, Algebra-Factorization, H.C.F, L.C.M, Equation framing and solution, Triangles, Geometrical Proof, Reasoning and Aptitude.

CLASS - IX Real Numbers, Laws of Indices, Graph, Co-ordinate Geometry: Distance Formula, Linear Simultaneous Equations, Properties of Parallelogram, Polynomial, Factorisation, Transversal & Mid-point Theorem, Profit and Loss, Statistics, Theorems on Area, Construction, Area & Perimeter of Triangle & Quadrilateral, Circumference of Circle, Area of Circle, Co-ordinate Geometry Internal and External Division of Straight Line Segment, Co-ordinate Geometry : Area of Triangular Region, Set Theory, Probability Theory, Reasoning and Aptitude.

CLASS - X Set theory, A. P & G. P, Quadratic Equations with one variable, Simple Interest, Theorems related to circle, Rectangular parallelopiped or Cuboid , Ratio and Proportion, Compound Interest and Uniform Rate of Increase or Decrease, Theorems related to Angles in a Circle, Right Circular Cylinder, Quadratic Surd, Theorems related to Cyclic Quadrilateral, Construction : Construction of Circumcircle and Incircle of a Triangle, Sphere, Variation, Partnership Business, Theorems related to Tangent to a Circle, Right Circular Cone, Construction : construction of Tangent to a Circle, Similarity, Real life problems related to different Solid Objects, Trigonometry : Concept of Measurement of Angle, Construction : Determination of Mean Proportional, Pythagoras Theorem, Trigonometric Ratios and Trigonometric Identities, Trigonometric Ratios of Complementary Angle, Application of Trigonometric Ratios : Heights & Distances, Statistics : Mean, Median, Ogive, Mode, Reasoning and Aptitude.

CLASS - XI Basic Trigonometry, Height & Distance, Associated angle, Compound angle, Transformation of sums & products, Multiple & submultiple angle, Variation, Progressions, Logarithm, Complex Numbers, Surds, Indices,

Quadratic equation & expression, Co-ordinates-Locus, Straight line, Functions & Limit, Set Theory, Number Theory, Reasoning and Aptitude.

CLASS - XII Trigonometric general equation, Inverse Trigonometric functions, Properties of triangles, Matrix, Determinants, Induction, Binomial theorem, Permutation & Combination, Probability, Number theory, Set Relation Mapping, Inequalities, Circle, Conics, Continuity, Differentiability, Differentiation, Integration, Differential equation, Tangent normal, Differential-rate measure-error-approximation, , Increasing & Decreasing Function, Maxima & Minima, Rolle's theorem & Lagrange's theorem, Area under curve, 3-D Co-ordinates-Basic concept, Application of calculus in Dynamics, Reasoning and Aptitude.

CLASS - XIII (THE CATEGORY OPEN TO ALL) Classical Algebra, Abstract Algebra, Linear Algebra, Boolean Algebra, Co-ordinate Geometry 2D & 3D, Plane Geometry, Transformation Geometry, Riemann Geometry, Real Analysis (Differential & Integral), Complex Analysis, Calculus in one Variable, Several variable Calculus, Laplace Transformation, Fourier series & Transformation, Differential equation (ODE, PDE, Non-linear), Topology, Hilbert Transform, Hankel Transformation, Graph Theory, Vector Algebra & Calculus, Tensor Analysis, Operation Research, Probability & Statistics, Dynamics (Particle & Rigid), Statics, Fluid Mechanics, Astronomy, Numerical Analysis, Number theory, Celestial Mechanics, Functional Analysis, Projective Geometry, Discrete Mathematics, Z-Transformation, Variational Calculus, Automata Theory, Naive Set Theory, Chebyshev Polynomials, Fuzzy sets, Differential Geometry, Measure Theory, Reasoning and Aptitude.

NOTICE- VERY VERY IMPORTANT INFORMATION

RE - EXAMINATION

This is to notify that the ALL INDIA JMMC SRINIVASA RAMANUJAN MEMORIAL 14TH MATH TALENT SEARCH EXAMINATION 2021-2022 (LEVEL -1) has been rescheduled on **17.10.2021 (Sunday)** for candidates who were unable to appear for the examination conducted on 03.10.2021.

The timings of the rescheduled exam remains the same for the different classes.
Note:

1. For further details follow the homepage-notice board in our website.
2. Re-examination is not applicable for candidates who successfully participated in the exam on 03.10.2021.

Date of Announcement of Result of Level -1 Exam : 24th October, 2021 at 11 P.M at www.mathjmmc.in.

A student must score 30% or more in LEVEL- 1 EXAM to get chance to participate in LEVEL- 2 EXAM.

Students can participate to LEVEL -2 EXAM from their account on **16th January 2021** on scheduled time (**Before 29th November 2021 registration fees for level 2 exam must be deposited to avoid cancelation of candidature**) .

LEVEL 2 -Exam Date : 16th January, 2022. (SUNDAY)

Date of Announcement of Result of Level -2 Exam : 20th January, 2022 at 11 P.M at www.mathjmmc.in.

Prizes will be sent to the eligible student's place within One Month of declaration of the LEVEL 2 result.

Prizes : (For LEVEL- 2 Exam) :

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JMMC SRINIVASA RAMANUJAN MEMORIAL

14th MATH TALENT SEARCH - 2021-2022

(ALL INDIA) LEVEL -1 **RE-EXAM**

For Class – (I - XII) + CLASS - XIII (THE CATEGORY OPEN TO ALL)

LEVEL 1 -RE-Exam Date : 17th October, 2021. (SUNDAY)

Time :

CLASS 13 – 6:00 A.M to 7:00 A.M

CLASS 12 – 7:15 A.M to 8:15 A.M

CLASS 11 – 8:30 A.M to 9:30 A.M

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