



APPLICATION FOR PRELIMINARY TEST (SUPER 30 - 2014)

Organised by: **Ramanujan School of Mathematics, Patna**

www.super30.org

Rs. 50/-

Name (in CAPITAL) : _____

Date of Birth : DD / MM / YYYY ☐ Female ☐ Male

Category : GEN ☐ OBC ☐ SC ☐ ST ☐ PH ☐

Father's Name : _____

Father's Occupation : _____

(a) If salaried, Employed with : GOVT. SECTOR ☐ PRIVATE SECTOR ☐

(b) Designation : _____

(c) Name of Office/Company : _____

Current Address : _____

Pin Code : _____ Telephone No. / Mobile No. : _____

EDUCATIONAL INFORMATION

Name of School you have attended last : _____

Marks Obtained in : Board Exam. _____ (In Percentage) Inter Exam. _____ (In Percentage)

Name and Address of Teachers and Coaching Centers where you have attended for the preparation of IIT (JEE) in the Subjects : —

Mathematics : _____

Physics : _____

Chemistry : _____

Write the name of subjects Physics, Chemistry and Mathematics in ascending order according to your interest.

Have you enrolled (or have to be enrolled in future) anywhere in the similar program ? If yes, write the name of the program and institute.

Have you enrolled (or have to be enrolled in future) in any test series ? If yes, write the name.

If you will get selected in SUPER 30, would you like to take the facility of free lodging and food ?

Do you need bank's loan for your B.Tech program ?

After completing your B. Tech, what would you like to do higher studies or job ?

(Applicant Signature) _____



ADMIT CARD
PRELIMINARY TEST (SUPER 30 - 2014)
Ramanujan School of Mathematics, Patna
Ph. : 9135060806, 9135060804, 9135060805
www.super30.org

Name : _____

Roll No. : _____

Test Date : _____

Centre : _____



IMPORTANT

Stick recent
Passport size
photograph

SYLLABUS

MATHEMATICS

- BASIC MATHEMATICS** : Real numbers, modulus of a real number, greatest integer of a real number and other basic facts of elementary mathematics.
- ALGEBRA** : Complex numbers, Quadratic equations, Arithmetic, Geometric and harmonic progressions, Permutations and combinations, Binomial theorem, Matrices and determinant.
- PROBABILITY** : Simple probability.
- TRIGONOMETRY** : Identities, Properties of triangle and trigonometric equations and their solutions.
- ANALYTICAL GEOMETRY**: **Two dimensions** : Cartesian coordinates, Locus Problems, Straight Line, Circle, Parabola, Ellipse and Hyperbola.
- Differential Calculus** : Function, limit, Continuity, Derivative of a function, Geometrical interpretation of the derivative, Tangents and normals, Increasing and decreasing functions, Maximum and minimum values of a function, Rolle's Theorem and Lagrange's Mean Value Theorem.

PHYSICS

Rest and Motion, The Forces, Newton's Laws of Motion, Friction, Circular Motion, Work and Energy, Centre of Mass, Linear Momentum, Rotational Mechanics, Gravitation, Simple Harmonic Motion, Fluid Mechanics, Some Mechanical Properties of Matter, Wave Motion and Waves on a String, Heat and Temperature, Calorimetry, Laws of Thermodynamics, Specific Heat Capacities of Gases, Heat Transfer.

CHEMISTRY

Structure of atom, Periodic Table, Chemical bonding, States of matter : Gases and Liquid, Thermodynamics, Chemical equilibrium, Chemistry of *s*-block elements, Chemistry of *p*-block elements, Basic Organic Chemistry, Chemistry of hydrocarbons.

Eligibility : Those candidates who are eligible to appear in IIT-JEE (2014)

IMPORTANT

Super 30 is an educational programme for IIT JEE, registered under the government's registration act. We don't charge any fee except Rs. 50/- as its application fee and provide absolutely free coaching, lodging and food. We are not responsible if any one runs a programme with the similar name Super 30 and charges any fee or demands donation.