

BARC Syllabus 2022 (Stipendiary Trainee)

BARC Exam Pattern 2022

Name of the Subject	Number of Questions	Time Duration
Questions Related to Subjects in Diploma/B.Sc.	40	1 Hrs

BARC Syllabus 2022

Mathematics

- Relations and Functions
- Logarithms
- Complex Numbers
- Quadratic Equations
- Sequences and Series
- Vectors
- Exponential and Logarithmic Series
- Sets and Set Theory
- Statistics
- Differentiation
- Introduction to Three Dimensional Geometry
- Probability Function
- Limits and Continuity
- Applications of Derivatives
- Indefinite Integrals Binomial Theorem
- Matrices
- Determinants
- Definite Integrals
- Trigonometry
- Cartesian System of Rectangular Coordinates
- Straight Lines
- Circles
- Conic Sections
- Permutations and Combinations

Science

- Laws of motion
- Units and measurements
- Thermal properties of matter

- Gravitation
- Kinetic theory
- Mechanical properties of solids
- Thermodynamics
- Motion in a straight line
- Nuclei
- Motion in a plane
- Systems of particles and rotational motion
- Mechanical properties of fluids
- Moving charges and magnetism
- Electric charges and fields
- Electrostatic potential and capacitance
- Electromagnetic induction
- Current electricity
- Magnetism and Matter
- Dual nature of radiation and matter
- Alternating current
- Atoms
- Electromagnetic waves
- Wave optics
- Work, energy, and power
- Physical world
- Oscillations
- Ray optics and optical instruments

General Awareness

- About India and it's neighboring countries
- Science and innovations
- New inventions
- Economic problems in India
- Geography of India
- National and International current affairs
- National Dance
- Music & Literature
- Indian Culture
- Scientific observations
- Political Science
- World organizations
- Countries and Capitals
- Famous Places in India
- Books and Authors

- Important Dates