

## SYLLABUS FOR THE COMMON ENTRANCE TEST (2026-27)

The question paper will contain **100 multiple choice type questions** on the following topics carrying equal marks.

### 1. Physics

Laws of Thermodynamics, Mode of heat transfer, Electrostatics, Magnetism, and Electrodynamics, Electro-magnetic radiation, Outlines in optics and sound, Semiconductors, atom and nuclei, Gravitational forces, Sound

### 2. Chemistry

Periodic table, s, p, d and f block elements, Metallurgy, Acids and bases, Industrial chemistry, Coordination chemistry

Isomerism, Nomenclature, Name reactions, Mechanism of organic reactions, Hybridization, Chemical bonding, Aromatic compounds, Chemical synthesis, Phytochemistry, Food and Environmental Chemistry

Chemical equilibrium, Chemical thermodynamics, Chemical kinetics, Solutions, Colligative properties, Surface chemistry, Catalysis, Enzyme kinetics, Nuclear chemistry

### 3. Biology

Classification, characteristics of various groups, Morphology, anatomy, adaptations, Ecology, Structure and functions of biomolecules, Genetics, Microbiology and biotechnology, Photosynthesis, Respiration, Nitrogen metabolism, Growth hormones, Enzymes, Digestive, respiratory, circulatory, muscular, excretory, reproductive, endocrine and nervous system of animals, Economic Botany and Plant Diseases, Replication, transcription, translation, Gene regulation, Cell communication & signalling, DNA structure

### 4. Mathematics

Uses of natural and common logarithms, Differential and integral calculus, Trigonometry, Ratios and their relation, Sequence and series, Probability, Mean, mode and median, Standard deviation, Correlation, Regression, Matrix, Exponential series

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27/5/20

Dean (Academic Affairs)