

AIFSET 2023

All India Forensic Science Entrance Test

Syllabus - B.Sc Forensic Science

Optional

Unit-I **Biology**

- Diversity in The Living World, Plant and animal Kingdom
- Structural Organization In Plants And Animals
- Cell: Structure and Functions, Cell Cycle and Cell Division
- Biomolecules
- Plant and Human Physiology
- Genetics and Evolution
- Human Health and Disease
- Food Production
- Microbes in Human Welfare
- Ecology

Unit II **Mathematics**

- Relations and functions,
- Trigonometric functions
- Matrices and Determinants
- Integrals and Differential Equations
- Three Dimensional Geometry
- Linear Programming and Probability
- Sets, Mathematic Induction
- Complex number and Quadratic Equations
- Linear Inequalities
- Permutations and Combinations
- Binomial Theorem
- Sequences and Series
- Straight Lines
- Limits and Derivatives

Compulsory

Unit-III **Chemistry**

- Structure of Atom
- Classification of Elements and Periodicity
- Chemical Bonding and Molecular Structure
- States of Matter and Redox Reactions
- Thermodynamics and Equilibrium
- Hydrogen, s- and p-,d, f Block Elements
- Organic Chemistry and Hydrocarbons
- The Solid State and Solutions
- Electrochemistry and Surface Chemistry
- Chemical Kinetics
- Haloalkanes and Haloarenes, Alcohols, Phenols, Ethers, Aldehydes, Ketones, Amines and Carboxylic Acids
- Biomolecules and Polymers

Unit-IV **Physics**

- Electric Charges And Electrostatic Potential
- Magnetism and Alternating Current
- Electromagnetic Waves
- Ray and wave optics
- Dual Nature of Radiation and Matter
- Atoms and Nuclei
- Semiconductor Electronics
- Units And Measurements
- Laws of Motion and Motion In A Plane and a straight line
- Work, Energy, And Power
- Rotational Motion and Gravitation

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Unit-V Forensic Sciences

- Forensic Science: Definition and history
- Definition and Types of Crime Police Organization
- Question and Answer documents
- Ballistics
- Crime Scene
- General Forensic sciences awareness and GK

Unit-VI Psychometric

- Psychological Assessment
- General English and Aptitude
- General Science, Quantitative Reasoning & Analysis and Research Aptitude
- Item Writing; Item Analysis;
- Reliability; Validity; Norm Development.
- Learning and Memory
- Problem Solving
- Assessment of General Abilities
–Aptitudes