

ALLEN Scholarship Admission Test (ASAT)



SYLLABUS & PATTERN

CLASS-XII
PASSED STUDENT

PHYSICS



- Atomic Physics
- Capacitance
- Center of Mass
- Circular Motion
- Current Electricity
- Error Analysis
- Friction
- Gravitation (Board Level)
- Kinematics
- Electromagnetic Induction & Alternating Current
- KTG & Thermodynamics
- Magnetic Effects of Current
- Nuclear Physics
- Properties of Matter
- Ray Optics & Optical Instruments
- Relative Motion
- Rigid Body Dynamics
- Simple Harmonic Motion
- String and Sound Waves
- Wave Optics

CHEMISTRY



- Aromatic Compound
- Aldehyde & Ketone
- Alkyl Halides & Aryl Halides
- Atomic Structure
- Chemical Equilibrium
- Chemical Kinetics
- Chemical Bonding
- Co-ordination Compounds
- Electro Chemistry
- General Organic Chemistry
- Hydrocarbon
- Ionic Equilibrium
- Liquid Solution
- p-Block Group
- Mole Concept
- Isomerism
- Redox Reaction
- Thermodynamics

IQ



- Blood Relation
- Dices
- Coding and Decoding
- Calendar
- Cubes
- Counting of Figures
- Clock
- Direction Sense
- Series
- Ranking Test
- Water Mirror Images

MATHEMATICS



- Complex Number
- Application of Derivative
- Binomial Theorem
- Definite Integration + Area
- Hyperbola
- Function
- Indefinite Integration
- Ellipse
- Limit, Continuity & Derivability
- Method of Differentiation
- Permutation & Combination
- Parabola
- Probability
- Trigonometric Ratio & Identities
- Straight Line
- Quadratic Expression & Equation
- Vector + 3D
- Circle
- Inverse Trigonometric Function

BIOLOGY



- Biomolecules
- Anatomy of Flowering Plants
- Biodiversity of Conservation
- Biotechnology Principles and Processes
- Organism & population
- Excretory Products and Their elimination
- Human Reproduction
- Genetics 1 (Principles of inheritance and variations)
- Evolution : Theories and Evidences
- Genetics 2 (Molecular basis of inheritance)
- Morphology of flowering Plants
- Neural control and coordination
- Microbes in human welfare
- Human, Health & Disease
- Non Chordata (Animal Kingdom Part-1)
- Plant Kingdom
- Respiration in Plants
- Chordata (Animal Kingdom Part-2)
- Ecosystem

EXAM PATTERN

Paper Pattern

Part-1 : IQ, Part-2: Physics; Chemistry; Biology; Mathematics

OFFLINE

Pattern of Questions :

80 Questions

Duration of Exam :

120 Minutes

Marking Scheme

+4 for correct answer, -1 for wrong answer

No negative marking in Part-1

Questions Distribution For Offline

Physics: 20, Chemistry: 20, Biology: 20/Mathematics : 20, IQ : 20

Note :-

For Offline ASAT:- It is compulsory to reach ASAT examination test center atleast **30 minutes** before exam starting time along with **ASAT admit card**.

ALLEN CAREER INSTITUTE PVT. LTD.

CORPORATE OFFICE : ALLEN "SANKALP", CP-6, INDRA VIHAR, KOTA (RAJASTHAN)-324005

Tel.: +91-744-3556677, +91-744-2757575, | **Mail:** info@allen.in | **Website:** www.allen.ac.in