

# ALLEN Scholarship Admission Test (ASAT)



## SYLLABUS & PATTERN

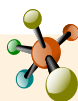
### CLASS-XII PASSED STUDENT

#### 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



- Isomerism
- 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
- Metallurgy
- p-Block Group
- Solid State
- Stoichiometry
- Thermodynamics

#### IQ



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

#### MATHEMATICS



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

#### BIOLOGY



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

## EXAM PATTERN

#### Paper Pattern

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

|                               | ONLINE        | OFFLINE      |
|-------------------------------|---------------|--------------|
| <b>Pattern of Questions :</b> | 120 Questions | 80 Questions |
| <b>Duration of Exam :</b>     | 90 Minutes    | 120 Minutes  |

#### Marking Scheme

+4 for correct answer, -1 for wrong answer

No negative marking in Part-1

#### Questions Distribution For Online

Physics: 30, Chemistry: 30, Biology: 30/Mathematics : 30, IQ : 30

Website to appear in online ASAT [www.asat.onlinetestseries.in](http://www.asat.onlinetestseries.in)

#### Questions Distribution For Offline

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

Note :-

**For Online ASAT:-** It is compulsory to login at least **30 minutes** before exam starting time.

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

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