

ALC CLASSES

AMU Class XI Science / Diploma Entrance

TEST SERIES SYLLABUS

Complete Guide: Part Tests + Mock Tests

4 Part Tests

6 Mock Tests

100 Qs | 100 Marks

120 Minutes

Visit: www.alcclasses.com | AMU Entrance Coaching, Abul Fazal Enclave Delhi -110025

Subject Distribution (Per Test): Physics: 17 | Chemistry: 17 | Biology: 16 | Maths: 30 | GK: 05 | Islamic: 10 | English:05

Based on NCERT Class 9 & 10 Syllabus

PART TEST 1 — 100 Questions | 100 Marks | 120 Minutes

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|------------------|---|
| PHYSICS | Motion (distance/displacement, velocity, acceleration, equations of motion, graphs, circular motion), Force & Newton's Laws (inertia, momentum, action-reaction), Gravitation (universal law, g, mass vs weight, free fall) |
| CHEMISTRY | Matter - Nature & States, Elements/Compounds/Mixtures, Atoms & Molecules, Mole Concept |
| BIOLOGY | Cell Biology, Tissues, Biological Classification |
| MATHS | Real Numbers, Polynomials, Linear Equations in Two Variables |
| GK | Indian Geography, Polity, Awards, Sports, Science |
| ISLAMIC | Aqaid & Ibadat, Seerat-e-Rasool, Quran & Hadith Introduction |

PART TEST 2 — 100 Questions | 100 Marks | 120 Minutes

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|------------------|---|
| PHYSICS | Work, Energy & Power (work done, kinetic/potential energy, conservation of energy, power), Flotation (thrust, pressure, Archimedes principle, buoyancy, relative density), Sound (propagation, speed in media, range of hearing, ultrasound, echo, SONAR) |
| CHEMISTRY | Structure of Atom (electrons, protons, neutrons, isotopes, isobars, Bohr model, electronic configuration), Chemical Reactions (types: combination, decomposition, displacement, double displacement, oxidation-reduction, precipitation, neutralization, balancing), Acids, Bases & Salts (properties, pH, indicators, neutralization, salts, uses) |
| BIOLOGY | Life Processes - Nutrition (autotrophic/heterotrophic, photosynthesis, human digestive system), Life Processes - Respiration (aerobic/anaerobic, human respiratory system, gaseous exchange), Transport in Plants & Animals (osmosis, diffusion, xylem/phloem, blood circulation, heart, excretion basics) |
| MATHS | Quadratic Equations (standard form, factorization, completing square, quadratic formula, discriminant, nature of roots), Arithmetic Progressions (nth term, sum of n terms, applications), Coordinate Geometry (distance formula, section formula, area of triangle, midpoint) |
| GK | Indian History (freedom movement, 1857, major events), Books & Authors, Indian Economy basics, World Geography, Current Affairs |
| ISLAMIC | History of Muslims in India (arrival, Delhi Sultanate, Mughal Empire), Famous Rulers (Qutubuddin Aibak to Bahadur Shah Zafar), Muslim contribution to Indian National Movement |

PART TEST 3 — 100 Questions | 100 Marks | 120 Minutes

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|------------------|--|
| PHYSICS | Electricity (potential difference, Ohm's law, resistance, series/parallel circuits, power dissipation, domestic circuits, P-V-I-R relations), Magnetism & EMI (magnetic field, field lines, solenoid, force on conductor, Fleming's rules, electromagnetic induction, AC vs DC, domestic wiring) |
| CHEMISTRY | Metals & Non-metals (properties, reactivity series, metallurgy, corrosion, alloys), Carbon Compounds (bonding, homologous series, functional groups, IUPAC naming, ethanol, ethanoic acid, soaps & detergents), Some Important Chemical Compounds |
| BIOLOGY | Control & Coordination (nervous system, neurons, reflex arc, brain, plant hormones, tropic movements), Reproduction (asexual in plants, sexual reproduction in plants, human reproductive system, reproductive health) |
| MATHS | Triangles (similarity criteria AA/SSS/SAS/RHS, BPT, Pythagoras theorem, areas of similar triangles), Lines & Angles, Quadrilaterals, Circles (chord properties, angle theorems, tangent theorems, cyclic quadrilateral) |
| GK | Science & Environment, Indian Constitution, Technology (ISRO, defense), Art & Culture, Health & Disease |

ISLAMIC

Muslim Culture in India - Famous Sufis and Ulama, Famous Monuments of Muslim India

PART TEST 4 — 100 Questions | 100 Marks | 120 Minutes

PHYSICS

Natural Phenomena - Light (reflection in mirrors, refraction, lenses, human eye, defects of vision, dispersion, scattering, refractive index), Sources of Energy (fossil fuels, solar, wind, water, biogas, nuclear, renewable vs non-renewable)

CHEMISTRY

Periodic Classification of Elements (Dobereiner, Newlands, Mendeleev, Modern periodic table, trends in properties), Our Environment (ecosystem, food chain/web, ozone depletion, biodegradable/non-biodegradable), Conservation of Natural Resources

BIOLOGY

Heredity & Evolution (Mendel's laws, monohybrid/dihybrid cross, sex determination, evolution, natural selection, fossils, speciation), Environment & Ecology (ecosystem, food chains/webs/pyramids, biodiversity, conservation), Food & Agriculture

MATHS

Mensuration (Heron's formula, surface areas and volumes of cubes/cuboids/spheres/cylinders/cones, combinations of solids, areas related to circles), Trigonometry (ratios, identities, complementary angles, heights and distances), Statistics (mean/median/mode grouped data, ogive), Probability

GK

Sports & Games (Olympics, CWG, Asian Games, sports awards), Basic World Geography, Awards & Honours, Current Affairs

ISLAMIC

Quran & Hadith (revelation, compilation, Sihah Sitta), Aqaid details (pillars of Islam/Iman), Seerat details (major battles, treaties, companions)

MOCK TESTS — Full Syllabus Tests

Mock Test 1

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|------------------|---|
| PHYSICS | Complete Physics: Motion, Force, Gravitation, Work-Energy, Sound, Flotation, Electricity, Magnetism, Light, Energy Sources |
| CHEMISTRY | Complete Chemistry: Matter, Atoms, Chemical Reactions, Acids-Bases, Metals, Carbon Compounds, Periodic Table, Environment |
| BIOLOGY | Complete Biology: Cell, Tissues, Life Processes, Control-Coordination, Reproduction, Heredity, Evolution, Ecology |
| MATHS | Complete Maths: Real Numbers, Polynomials, Linear Equations, Quadratic Equations, AP, Coordinate Geometry, Triangles, Circles, Mensuration, Trigonometry, Statistics, Probability |
| GK | Full GK: History, Geography, Economy, Science, Awards, Sports, Current Affairs |
| ISLAMIC | Full Islamic: Aqaid, Seerat, Quran-Hadith, Muslim History in India |

Mock Test 2

| | |
|------------------|---|
| PHYSICS | Complete Physics — all chapters mixed, emphasis on Electricity and Light |
| CHEMISTRY | Complete Chemistry — emphasis on Chemical Reactions, Carbon Compounds, Periodic Table |
| BIOLOGY | Complete Biology — emphasis on Life Processes, Heredity, Ecology |
| MATHS | Complete Maths — emphasis on Mensuration, Trigonometry, Statistics |
| GK | History, Economy, Science & Technology, Geography, Current Affairs |
| ISLAMIC | Aqaid, Hadith, Sufis, Muslim History |

Mock Test 3

| | |
|------------------|--|
| PHYSICS | Complete Physics — emphasis on Light, Energy Sources, Sound |
| CHEMISTRY | Periodic Table, Metals, Carbon Compounds, Environment |
| BIOLOGY | Heredity & Evolution, Ecology, Agriculture, Life Processes |
| MATHS | Mensuration, Trigonometry, Coordinate Geometry, Circles |
| GK | Geography, Science, Current Affairs, Books & Authors, Awards |
| ISLAMIC | Seerat battles, Quran detail, Aqaid, Mughal history |

Mock Test 4

Full Syllabus: All subjects as covered in Part Tests 1-4

Mock Test 5

Full Syllabus: All subjects as covered in Part Tests 1-4

Mock Test 6

Full Syllabus: All subjects as covered in Part Tests 1-4

For more info, study material & test schedules, visit: www.alcclasses.com
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