

Paper Pattern

The UPSEE 2014 exam consists of multiple choice questions with no negative marking applicable. Candidates are to attempt the papers relevant for the field in which they seek admission.

Paper 1 - Physics, Chemistry, Maths

Physics Syllabus: Measurement, Motion in one dimension, Laws of motion, Motion in two dimensions, Work, power and energy, Linear momentum and collisions, Rotation of a rigid body about a fixed axis, Gravitation, Oscillatory motion, Mechanics of solids and fluids, Heat and thermodynamics, Wave, Electrostatics, Current electricity, Magnetic effect of current, Magnetism in matter, Electromagnetic induction, Wave optics and Modern physics

Chemistry Syllabus: Atomic structure, Chemical bonding, Chemical equilibrium, Redox reactions, Acid-base concepts, Electrochemistry, Catalysis, Colloids, Colligative properties of solution, Periodic table, Preparation and properties of different elements, Thermochemistry, General organic chemistry, Isomerism, IUPAC, Polymers, Carbohydrates and Petroleum

Mathematics Syllabus: Algebra, Probability, Trigonometry, Co-ordinate geometry, Calculus, Vectors, Dynamics and Statics

Paper 2 - Biology

Zoology syllabus: Origin of life, Organic evolution, Mechanism of organic evolution, Human genetics and eugenics, Applied biology, Animal physiology, Detailed study of protozoa, amoeba and the likes

Botany syllabus: Plant cell, Ecology, Ecosystem, Genetics, Fruits, Important phylums, Soil

Paper 3 - Agriculture

Agricultural Physics and Chemistry AG I syllabus: Agricultural physics, Agricultural chemistry, Inorganic chemistry, Organic chemistry,

Agricultural Engineering and Statistics AG - II syllabus: Agricultural engineering, Agricultural Statistics,

Agronomy & Agricultural Botany AG - III syllabus: Agronomy (soils, irrigation and drainage), Agricultural botany

Paper 4- Aptitude test for Architecture

Part A: Mathematic syllabus: Algebra, Probability, Trigonometry, Co-ordinate geometry, Calculus, Vectors, Dynamics, Statics

Aesthetic Sensitivity syllabus: Visualizing three dimensional objects from two dimensional objects, Visualizing different sides/surfaces of three dimensional objects, Identifying commonly used materials and objects based on their textual qualities, Analytical reasoning, Mental ability, Imaginative comprehension and expression, Architectural awareness

Part B: Drawing Aptitude: Sketching of a given object proportionately and in a visually appealing manner, Visualising and drawing the effects of light on objects and their shadows on surrounding areas, Perspective drawing, Composing three dimensional elements to form a structural object such as a building, Creating two dimensional compositions using given shapes/planner forms, Using colours in a given composition, Developing a sense of scale and proportion

Paper 5- Aptitude test for General Awareness

Part A: Reasoning and logical deduction, Geometrical design and identification, Selection of related words/letters/figures/numbers, Identification of odd items from a group, Completion of numerical series based on logic/pattern, Syllogisms,

Part B: Numerical ability and scientific aptitude, General arithmetic questions, Calculation of fractions, square roots, percentages etc, Calculation of profits, loss and interest rates, Data/table analysis, Questions related to common use of science, Questions on health and nutrition

Part C: General knowledge, Current affairs, Historical events, Geography (which include tourist places/spots), Countries and currencies

Part D: English language, Meaning of words, Antonyms and synonyms, Meaning of phrases and idioms, Correct sentences (by using the correct adjectives, adverbs, verbs and pronouns), Comprehension based questions,

Paper 6- Aptitude test for diploma holders in Pharmacy

Pharmacy syllabus: Pharmaceutics-I, Pharmaceutical Chemistry- I, Pharmacognosy, Biochemistry and clinical pathology, Human anatomy and physiology, Health education and community pharmacy, Pharmaceutics-II, Pharmaceutical Chemistry- II, Pharmacology and toxicology, Drug store and business management, Hospital and clinical pharmacy