

Class I

QUESTION PAPER PATTERN FOR GSO

The test paper has 45 questions. Time allowed: 01 hour. There are 3 sections, each section contains 15 questions.

Section A: Scientific Reasoning and Mental Ability

Section B: Applied Science

Section C: Accomplishers Section.

SYLLABUS GSO

Section A: Length, Time, Money, Patterns, Series Completion, Numerals, Number Name and Numbers (2 digit numbers), Analogy, Geometrical shapes, Odd one out, Problems based on figures.

Section B & C: Plants, Animals, Living & Non Living things around us, Food we eat, Clothes we wear, Weather and Sky, Air and Water, Good Habits, Safety Rules, Our environment, My Family and Relatives, Human Beings and their needs, General and Applied Science.

Class II

QUESTION PAPER PATTERN FOR GSO

The test paper has 45 questions. Time allowed: 01 hour. There are 3 sections, each section contains 15 questions.

Section A: Scientific Reasoning and Mental Ability

Section B: Applied Science

Section C: Accomplishers Section.

SYLLABUS GSO

Section A: Addition, Subtraction, Number Name and Numbers(3 digits), Temperature, Money, Calender, Length and Weight, Analogy, Geometrical shapes, Coding - Decoding, Series Completion, Odd one out, Patterns, Time, Figure problems.

Section B & C: Characteristics of Living and Non living things, Occupation, Good habits , Safety rules, Transport and Communication, Animals, Plants, Human body, Housing, Food we eat, Clothes we wear, Family, Our Environment, Earth and Universe, Festivals and Occasions, General and Applied Science.

Class III

QUESTION PAPER PATTERN FOR GSO

The test paper has 45 questions. Time allowed: 01 hour. There are 3 sections, each section contains 15 questions.

Section A: Scientific Reasoning and Mental Ability

Section B: Applied Science

Section C: Accomplishers Section.

SYLLABUS GSO

Section A: Addition, Subtraction, Multiplication, Division, Time, Calendar, Straight and Curved lines, Numerals and Numbers(4 digits), Odd one out, Series Completion, Coding-decoding, Weight, Capacity, Embedded figures, Figure problems, Mirror image problems.

Section B & C: Land and Aquatic animals, Matter and Material, Earth and Universe, The Plant Kingdom and the Animal Kingdom, Natural Resources, Transport and Communication, Human Body, Force, Sound and Light, House and Occupation, Our Safety and First Aid, General and Applied Science.

Class IV

QUESTION PAPER PATTERN FOR GSO

The test paper has 45 questions. Time allowed: 01 hour. There are 3 sections, each section contains 15 questions.

Section A: Scientific Reasoning and Mental Ability

Section B: Applied Science

Section C: Accomplishers Section.

SYLLABUS GSO

Section A: Addition, Subtraction, Multiplication, Division, Numerals and Numbers(5 digits), Geometrical shapes, Symmetry, Place-value, Analogy and Classification, Day and Dates, Multiple and Factors, Length, Weight, Capacity, Money and Time, Perimeter of shapes, Coding-Decoding, Roman Numerals, Data Representation, Series Completion, Embedded figures, Patterns, Conversions, Figure Problems, Mirror Images, Alphabetical Test, Number Ranking, Direction.

Section B & C: Earth and Universe, Human Body, Water, Motion, Power and Energy, Matter, Force, Transport, The Plant Kingdom and The Animal Kingdom, Food and Digestion, Clothing, Our Environment, Soil, Rock and Minerals, Measurement, Micro-Organisms, General and Applied Science.

Class V

QUESTION PAPER PATTERN FOR GSO

The test paper has 45 questions. Time allowed: 01 hour. There are 3 sections, each section contains 15 questions.

Section A: Scientific Reasoning and Mental Ability

Section B: Applied Science

Section C: Accomplishers Section.

SYLLABUS GSO

Section A: Addition, Subtraction, Multiplication, Division, Numerals, Decimals, Geometrical shapes and angles, Symmetry, Direction sense, Roman Numerals, Place-value, Multiple and Factors, Length, Weight, Capacity, Money and Time, Perimeter of shapes, Coding-Decoding, Roman Numerals, Puzzle test, Data Representation, Series Completion, Embedded figures, Patterns, Conversions, Figure Problems, Mirror Images, Alphabetical Test, Number Ranking.

Section B & C: Natural Resources, Work, Light and Sound, Function of parts of Human body, Nutrition, Rock and Soil, Earth and Universe, Water, Matter, Force, Transport, The Plant Kingdom and The Animal Kingdom, General and Applied Science.

Class VI

QUESTION PAPER PATTERN FOR GSO

The test paper has 45 questions. Time allowed: 01 hour. There are 3 sections, each section contains 15 questions.

Section A: Scientific Reasoning and Mental Ability

Section B: Applied Science

Section C: Accomplishers Section.

SYLLABUS GSO

Section A: Whole Numbers, Data Handling, Decimals, Geometrical concepts, Shapes, Playing Numbers, Algebra, Symmetry, Ratio and Proportion, Verbal & Non Verbal Reasoning.

Section B & C: Food and its components, Light, Sorting materials into groups, Shadow and Reflection, Motion and Distance Measurements, Health and Hygiene, Fibers to Fabrics, Air and Water, Garbage in and Garbage out, Separation of Materials, Electricity and Circuits, Fun with Magnets, Living Organisms and their Surroundings, The Plant Kingdom and The Animal kingdom, Body Movements, Changes around us, General and Applied Science.

Class VII

QUESTION PAPER PATTERN FOR GSO

The test paper has 45 questions. Time allowed: 01 hour. There are 3 sections, each section contains 15 questions.

Section A: Scientific Reasoning and Mental Ability

Section B: Applied Science

Section C: Accomplishers Section.

SYLLABUS GSO

Section A: Lines and Angles, Triangle and its properties, Congruency of Triangles, Integers, Fractions, Decimals, Rational Numbers, Simple equations, Simple Probability, Conversions, Verbal and Non - verbal Reasoning, Practical Geometry, Perimeter and Area, Solid Shapes, Exponents and Powers.

Section B & C: Nutrition in Plants and Animals, Heat, Comparison of Quantities, Motion and Time, Acids, Salts and Bases, Physical and Chemical changes, Winds, Storms, Cyclones, Soil, Electric current and its effects, Light, Water- a precious resource, Water Pollution, Forest-Our Lifeline, Weather, Climate, Adaptation of animals to climate, Fibers to Fabrics, Conservation of Natural Resources, Reproduction in Plants, Respiration in Organisms, Transportation in Plants and Animals, General and Applied Science.

Class VIII

QUESTION PAPER PATTERN FOR GSO

The test paper has 45 questions. Time allowed: 01 hour. There are 3 sections, each section contains 15 questions.

Section A: Scientific Reasoning and Mental Ability

Section B: Applied Science

Section C: Accomplishers Section.

SYLLABUS GSO

Section A: Data Handling, Embedded figures, Mirror images, Odd one out, Playing Numbers, Solid shapes, Analytical and Mathematical Reasoning, Coding-Decoding, Series Completion, Verbal and Non verbal Reasoning.

Section B & C: Chemical effects of electric current, Light, Sound, Stars and Solar system, Crop Production and management, Micro-Organisms, Cell - structure and function, Conservation of Plants and Animals, Reproduction in Animals, Reaching the age of Adolescence, Coal and Petroleum, Combustion and Flame, Pollution of Air and Water, Natural Phenomenon, Electric Current, Force and Pressure, Friend and Foe, Materials: Metals and Non-metals, Synthetic fibers and Plastics, Friction, General and Applied Science.

Class IX

QUESTION PAPER PATTERN FOR GSO

The test paper has 45 questions. Time allowed: 01 hour. There are 3 sections, each section contains 15 questions.

Section A: Scientific Reasoning and Mental Ability

Section B: Applied Science

Section C: Accomplishers Section.

SYLLABUS GSO

Section A: Number Systems, Surface Areas and Volumes, Polynomials, Euclid's Geometry, Analytical Reasoning, Verbal and Non-verbal reasoning, Statistics, Probability.

Section B & C: Improvement in food resources, Cell-Fundamental unit of life, Motion, Force and laws of Motion, Work and Energy, Gravitation, Sound, Atoms and Molecules, Why do we fall ill, Natural resources, Structure of Atom, Matter in our surroundings, Is Matter around us Pure, Tissues, Diversity in Living organisms, General and Applied Science.

Class X

QUESTION PAPER PATTERN FOR GSO

The test paper has 45 questions. Time allowed: 01 hour. There are 3 sections, each section contains 15 questions.

Section A: Scientific Reasoning and Mental Ability

Section B: Applied Science

Section C: Accomplishers Section.

SYLLABUS GSO

Section A: Direction Sense test, Mathematical operations, Number Ranking, Time sequence test, Coding – Decoding, Distance, Speed, Time, Verbal and Non – Verbal Reasoning.

Section B & C: Chemical Reactions and equations, Acids, Bases and Salts, Metals and Non – Metals, Carbon and its compounds, Periodic classification of Elements, Life Processes, Control and Coordination, How do Organisms Reproduce ?, Heredity and Evolution, Light – Reflection

and Refraction, Human eye and colorful world, Electricity, Magnetic Effects of Current, Sources of Energy, Our Environment, Management of Natural Resources, General and Applied Science.

Class XI

QUESTION PAPER PATTERN FOR GSO

The test paper has 45 questions. Time allowed: 01 hour. There are 3 sections, each section contains 15 questions.

Section A: Scientific Reasoning and Mental Ability

Section B: Physics and Chemistry

Section C: Biology / Mathematics

SYLLABUS GSO

Section A: Logical Reasoning and Mental Ability (Verbal and Non – Verbal)

Section B: Physics – Units and Measurements, Mechanics, Properties of Matter, Heat and Thermodynamics, Oscillations and Waves.

Chemistry: Basic concepts of Chemistry, Structure of Atom, Classification of Elements and Periodicity in Properties, Chemical Bonding, Molecular Structure, State of Matter, Thermodynamics, Equilibrium, Redox Reactions, Hydrogen, The s – Block Elements, The p – Block Elements(Groups 13 and 14), Organic Chemistry - Basic principles and techniques, Hydrocarbons, Environmental Chemistry.

Section C: Biology: Diversity in the Living World, Structural Organisation in Plants and organisms, Cell : Structure and function, Bio-Molecules, Cell Division, Plant Physiology, Animal Physiology.

Mathematics: Sets, Relations and Functions, Principles of Mathematical Induction, Logarithms, Complex Numbers & Quadratic Equations, Linear Inequations, Sequences and Series, Trigonometry, Straight Lines, Conic Sections, Permutations and Combinations, Binomial Theorem, Statistics, Mathematical Reasoning, Limits and Derivatives, Probability, Introduction to 3-D Geometry.

Class XII

QUESTION PAPER PATTERN FOR GSO

The test paper has 45 questions. Time allowed: 01 hour. There are 3 sections, each section contains 15 questions.

Section A: Scientific Reasoning and Mental Ability

Section B: Physics and Chemistry

Section C: Biology / Mathematics

SYLLABUS GSO

Section A: Logical Reasoning and Mental Ability (Verbal and Non – Verbal)

Section B: Physics – Electricity and Magnetism, Electromagnetic Induction, AC, Electromagnetic Waves, Optics, Modern Physics, Semiconductor Electronics, Communication Systems.

Chemistry: Solid State, Solutions, Electrochemistry, Chemical Kinetics, Surface Chemistry, General Principles and Processes of Isolation of Elements, p-Block Elements(Group 15 to 18), d- and f- Block Elements, Coordination Compounds, Haloalkanes and Haloarenes, Alcohols, Phenols and Ethers, Aldehydes, Ketones and Carboxylic acids, Amines, Biomolecules, Polymers, Chemistry in everyday life.

Section C: Biology: Reproduction, Genetics and Evolution, Biology in Human Welfare, Biotechnology and Ecology.

Mathematics: Relations and Functions, Inverse Trigonometric Functions, Matrices and Determinants, Continuity and Differentiability, Application of Derivatives, Integrals, Applications of Integrals, Differential Equations, Vector Algebra, Three Dimensional Geometry, Probability, Linear Programming.