

BIOLOGY

Biology-1

Nutrition, Respiration, Transportation in Plants and Animals, Excretion, Control and Coordination, Reproduction, Growth and Development, Heredity and Evolution, Our Environment.

Biology-2

Cell, Tissues, Biodiversity and Classification, Our Health, Habitat, Waste and its Management

PHYSICS

Physics-1

Electricity And Chemical Effects Of Current, Magnetic Effects Of Electric Current, Light, Sources Of Energy, Heat, Miscellaneous

Physics-2

Motion, Force And NLM, Gravitation, Thrust And Pressure; Work, Energy, Power; Waves And Sound

CHEMISTRY

Chemistry-1

Chemical Reactions and Equations, Acids, Bases and Salts, Periodic Classification of Elements, Metals and Metallurgy, Chemistry of Non-Metals, Derivatives of hydrocarbons, Chemistry in daily Life.

Chemistry-2

Matter: Nature and behaviour, Atomic structure, Chemical Bonding, Chemical formula and Mole Concept, Hydrocarbons, Coal, Petroleum and Petrochemicals.

MATHEMATICS

Mathematics-1

Linear Equations in Two Variables, Number System, Surds and Indices, Polynomials, Quadratic Equations, Arithmetic Progressions, Coordinate Geometry, Trigonometry and its Applications, Triangles, Circles and Tangent to the circle, Mensuration of Plane Figures, Mensuration of Solid Figures, Statistics, Lines and Angles, Quadrilaterals, Area of Parallelogram & Polygon, Linear Equations in One Variable, Symmetry

Mathematics-2

Every Day Mathematics: Percentage, Profit, Loss and Discount, Partnership, Mixtures and Alligations, Simple and Compound Interest, Ratio and Proportion, Time, Speed and Distance, Unitary Method, Time and Work, Pipes and Cisterns, Problems on Ages, Banking and Taxation

MENTAL ABILITY

Mental Ability-1

Verbal: Series, Logical Sequence of Words, Coding & Decoding, Analogy, Classification, Logical Venn Diagrams, Mathematical Operations, Direction Sense Test, Alphabet Test, Puzzle Test, Number, Ranking & Time sequence Test, Alpha-Numeric Sequence Puzzle, Inserting The Missing Characters, Calendar, Arithmetical Reasoning, Blood Relations, Statements-Conclusions, Clock, Data Sufficiency, Sequential Output Tracing.

Mental Ability-2

Non Verbal: Series, Analogy, Classification, Analytical Reasoning, Mirror Images, Water Images, Spotting Out The Embedded Figures, Completion of Incomplete Pattern, Paper Folding & Paper Cutting, Dice, Cube, Dot Situation, Figure Matrix, Figure formation, Construction of Shapes & Grouping of Identical Figures.

SOCIAL SCIENCE

SST-1

Resources and Development, Land Resources, Agriculture, Mineral Resources & Industrialization, Human Resources, Human Settlement, The First World War, Between the Two World Wars - The Russian Revolution and the Great Depression, Between the Two World Wars - Nazism in Germany and World War-II, End of Colonialism and the Cold War, Mass Media in the 20th Century, The Making of the Indian Constitution, The Constitution, Government System and their Social Concerns, Democracy in Independent India and the Working of Political Institutions, People's Participation in Democracy, Democracy and Social Movements, Understanding Development, Money and Credit, Government Budget and Taxation, Food Security, Globalisation.

SST-2

Cartography and Study of Maps, India – An Introduction, India's Climate, The Rivers of India and their Drainage System, Natural Vegetation and Communities Dependent on Forests, The Dawn of Modern Culture in Europe and India The Early-Modern Age (1300 –1800 CE), The Reformation and the Enlightenment (1300–1800 CE), Democratic and Nationalist Revolutions (1600-1900 CE), The Industrial Revolution and Social Change (1750-1900), Colonialism, The Idea of Democracy and its Spread, The Main Features of Democracy, Rights, Gender Equality and Women's Rights, Understanding Economic Activities, The Nature of the Indian Economy, How does Production take Place?.