

BIOLOGY

Biology-1

Sensations and Responses, Windows of Knowledge, Chemical Messages for Homeostasis, Keeping Diseases Away, Soldiers of Defence, Unravelling Genetic Mysteries, Genetics for the Future, The Paths Traversed by Life

Biology-2

Food for the Living World, Beyond the Sense of Taste, Tissue to Tissue, To Release Energy, To Maintain Homeostasis, The Biology of Movement, Division For Growth and Reproduction

PHYSICS

Physics-1

Electricity and Chemical Effects of Current, Magnetic Effects of Current, Light, Sources of Energy, Heat, Electronics, Universe and Space Exploration.

Physics-2

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

CHEMISTRY

Chemistry-1

Electronic configuration and periodic table, Gas laws and Mole concept, Redox reactions and Rate of chemical reactions, Reactivity series and Electrochemistry, Production of Metals, Carbon and its compounds

Chemistry-2

Structure of an atom, Chemical bonding, Classification of elements and the periodic table, Non- metals and their compounds, Acids, bases and salts

MATHEMATICS

Mathematics-1

Linear Equations in Two Variables, Number System, Surds and Indices, Polynomials, Decimal Forms, Quadratic Equations, Arithmetic Progression, Coordinate Geometry, Trigonometry and Its Applications, Triangle, Circles and Tangent to the circle, Mensuration of Plane Figures, Mensuration of Solid Figures, Statistics, Probability, Lines and Angles, Quadrilaterals, Area of Parallelogram and Polygon, Equation of Straight Line.

Mathematics-2

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

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 & Ordering 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, Figure Matrix, Paper Folding & Paper Cutting, Rule Detection, Construction of Shapes, Dice, Cube, Dot Situation, Grouping of Identical Figures.

SOCIAL SCIENCE

SST - 1

History: Revolution that influenced the world, World in the 20th Century, British exploitation and resistance, Culture and Nationalism, Struggle and Freedom, India after Independence, Kerala towards modernity.
Civics: Public administration, State and political science, Civic Consciousness.
Geography: Seasons and Time, In search of the Source of Time, Terrain Analysis Through Maps, Eyes in the Sky- The Data Analysis, India – Land of Diversities, Resource- Weather of India
Economics: Human resources and development, Public expenditure and public revenue, financial institutions and Services, Consumer Satisfaction.

SST - 2

History: India- The land of synthesis, Kerala- From 8th to 18th Century, Medieval World, The East and West Era of Exchanges, Medieval India- Concept of Kingship, Society and Economy in Medieval India.
Civics : Election and Democracy, Towards British Future, Indian Constitution- Rights and Duties,
Geography: For safer Future, Population, Migration and Settlements, Sun- The ultimate source, Signature of Time, By the hands of nature, Ocean and man
Economics: Economics growth and Economic Development, Economic System and Economic Policies, National Income