

## BIOLOGY

**Biology-1**

Life Process - Nutrition, Life Process - Respiration, Life Process - Transportation, Life Process - Excretion, Control and Coordination, Reproduction in Plants and Animals, Heredity and Evolution, Our Environment, Management of Natural Resources.

**Biology-2**

Cell, Tissue, Improvement in Food Resources, Diversity in Living Organisms, Why do we fall ill?

## PHYSICS

**Physics-1**

Electricity and Chemical Effects of Current, Magnetic Effects of Current, Light, Sources of Energy, Heat, Miscellaneous.

**Physics-2**

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

## CHEMISTRY

**Chemistry-1**

Chemical Reactions & Equations, Acids, Bases & Salts, Metals & Non-metals, Carbon and its Compounds, Periodic Classification of Elements

**Chemistry-2**

Matter in our surroundings, Is matter around us pure, Atoms and molecules, Structure of atom

## MATHEMATICS

**Mathematics-1**

Linear Equations in Two Variables, Number System, Surds and Indices, Polynomials, 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.

**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:** The First Freedom Struggle of 1857, Nationalism in India, Contribution of Madhya Pradesh in the Freedom Struggle, Important Events of the post independent India.  
**Civics:** Indian Constitution, Functioning of Indian Democracy, Main challenges before Indian Democracy  
**Geography:** Resources of India- I & II, Manufacturing Industries, Transport and Communication, Map: Reading and Depiction, Natural Disasters and Disaster Management  
**Economics:** Economic Development and Planning, Rural Development and Employment Guarantee Scheme, Money and Financial System, Economy: Service Sector and Infrastructure, Consumer Rights, Economic System, Globalisation and the Indian Economy.

**SST - 2**

**History:** History of ancient India, Medieval India, Major cultural trends  
**Civics:** Democracy, Elections, Constitutional Rights and Duties  
**Geography :** Man and Environment, Efforts and Successes of Environmental Conservation, India- Size and Location, Physical divisions of India, Drainage, Climate, Natural vegetation and wildlife, Population, Map; Reading and Numbering  
**Economics:** Growth of rural Economy, Poverty as a Challenge, State of Industries in India, Food Security in India