Syllabi

Class 5 — For Class V Students
(going to Class VI in 2016)

GENERAL SCIENCE

1. World around us
2. Living and non-living objects
3. Our body – organs and their functions
4. Diseases – causes and cure
5. Plants – growth and structure
6. Animals – our friends
7. How things move – force and work
8. Simple Machines
9. The world of transport and communication
10. Natural Resources
11. Natural Calamities
12. Our Universe

The exam will intend to check the general awareness of the student at Class – V level.

MATHEMATICS

1. Fractions
2. Decimals
3. Percentage
4. Profit & Loss
5. Angles
6. Triangles
7. Area & Perimeter

Class 6 — For Class VI Students
(going to Class VII in 2016)

SCIENCE

PHYSICS

1. Motion and Measurement of Distances
2. Light, Shadows and Reflections
3. Electricity and Circuits

CHEMISTRY

1. Fibre to Fabric
2. Sorting materials into groups
3. Separation of substances
4. Changes around us
5. Water

BIOLOGY

1. Food : Where does it come from ?
2. Components of Food
3. Getting to know plants
4. Body movements

MATHEMATICS

1. Knowing Our Numbers
2. Whole Numbers
3. Playing with Numbers
4. Integers
5. Algebra
6. Basic Geometrical Ideas
7. Fractions & Decimals
8. Unitary Method, Ratio & Proportion
9. Mensuration

7 For Class VII Students
Class
(going to Class VIII in 2016)

SCIENCE

PHYSICS

1. Motion and Time
2. Electric Current and Its Effects
3. Light

CHEMISTRY

1. Fibre to Fabric
2. Acids, Bases and Salts
3. Physical and Chemical Changes
4. Soil

BIOLOGY

1. Nutrition in plants
2. Nutrition in animals
3. Weather, Climate and Adaptations of Animals to Climate
4. Respiration in Organisms
5. Transportation in Animals and Plants
6. Reproduction in Plants

MATHEMATICS

1. Integers
2. Fraction & Decimal
3. Data Handling
4. Lines & Angles
5. Triangles & Its Properties
6. Congruent Triangles
7. Rational Number
8. Comparing Quantities

8 For Class VIII Students
Class
(going to Class IX in 2016)

SCIENCE

PHYSICS

1. Force and Pressure
2. Friction
3. Sound
4. Chemical Effects of Electric Current
5. Light

CHEMISTRY

1. Synthetic Fibres & Plastics
2. Metals and Non metals
3. Coal & Petroleum

BIOLOGY

1. Crop Production & Management
2. Microorganism
3. Conservation of Plants & Animals
4. Cell-Structure & Function

MATHEMATICS

1. Rational Numbers
2. Square, Square roots & Cube, Cube roots
3. Understanding Quadrilaterals
4. Data Handling
5. Comparing Quantities
6. Algebraic Expression & Identities
7. Factorisation
8. Exponents and Powers

Syllabi

Class 9 — For Class IX Students
(going to Class X in 2016)

Science

PHYSICS

1. Motion, Uniform, Non uniform (Accelerated)
2. Forces and Laws of motion
3. Gravitation
4. Work and Energy

CHEMISTRY

1. Matter in Our Surrounding
2. Is matter around us is pure? Properties of Matter, Solutions, Chemical Reactions
3. Atoms and Molecules
4. Mole Concept
5. Structure of Atom

BIOLOGY

1. Improvement in Food Resources
2. Cell: The Fundamental Unit of Life
3. Tissues
4. Diseases: Why do we fall ill

MATHEMATICS

1. Number System
2. Polynomials
3. Lines & Angles
4. Triangles
5. Co-ordinate Geometry
6. Quadrilaterals
7. Area of Parallelogram & Triangles

Class 10 — For Class X Students
(going to Class XI in 2016)

PHYSICS

1. Light, Reflection and Refraction
2. The Human Eye & The Colourful World
3. Electricity and its heating and chemical effects
4. Magnetic effects of electric current

CHEMISTRY

1. Chemical Reactions & Equations
2. Acid, Base and Salts
3. Periodic Classification
4. Metals and Non-Metals, Alkaline Earth Metals
5. Carbon & Its Compounds

MATHEMATICS

1. Real Numbers
2. Polynomials
3. Similar Triangles
4. Trigonometry and Its Application
5. Arithmetic Progression
6. Tangents to a Circle

Class 11

For Class XI Students
(going to Class XII in 2016)

PHYSICS

1. Physical world and Measurement
2. Vectors
3. Kinematics
4. Laws of motion
5. Work Energy and Power
6. Conservation of momentum
7. Rotational Mechanics
8. Gravitation and Fluid
9. Elasticity and SHM
10. Heat and Thermodynamics
11. Waves and sound

CHEMISTRY

1. Some Basic Concept of Chemistry
2. Atomic Structure
3. Classification of Element and Periodic Properties
4. Chemical Bonding & Molecular Structure
5. State of Matter
6. Redox Reaction & Stoichiometry
7. Thermodynamics
8. Chemical Equilibrium
9. Ionic Equilibrium
10. Hydrogen & Its compounds
11. s-Block & p-Block Elements (13 & 14 group)
12. Nomenclature of Organic Compounds & General organic Chemistry
13. Hydrocarbons
14. Environmental Chemistry

MATHEMATICS

1. Basic Calculus
2. Sets, Relations and Functions
3. Quadratic Eq. & Expressions
4. Logarithms
5. Mathematical Induction
6. Linear Inequalities
7. Progression & Series
8. Complex Numbers
9. Trigonometric Ratios and Identities
10. Trigonometric Equations
11. Solution of Triangles
12. Binomial Theorem
13. Straight Line
14. Conic Section
15. Circle
16. Parabola
17. Ellipse
18. Hyperbola
19. Permutations & Combinations
20. Limits & Derivatives
21. Statistics
22. Probability
23. Three Dimensional Geometry (Basic)
24. Mathematical Reasoning