

# ENTRANCE EXAM 2022 SYLLABUS

## MATHEMATICS

### Class 6 – ADMISSION TO CLASS VII

Chapter 6 Integers  
Chapter 7 Fractions  
Chapter 8 Decimals  
Chapter 9 Data Handling  
Chapter 10 Mensuration  
Chapter 11 Algebra  
Chapter 12 Ratio and Proportion  
Chapter 14 Practical Geometry

### Class 7 - ADMISSION TO CLASS VIII

Chapter 5 Lines and Angles  
Chapter 6 The triangle and its Properties  
Chapter 7 Congruence of Triangles  
Chapter 8 Comparing Quantities  
Chapter 9 Rational Numbers  
Chapter 11 Perimeter and Area  
Chapter 12 Algebraic Expressions  
Chapter 13 Exponents and Powers

### Class 8 - ADMISSION TO CLASS IX

Chapter 1 Rational Numbers  
Chapter 6 Squares and Square Roots  
Chapter 7 Cubes and Cube Roots  
Chapter 8 Comparing Quantities  
Chapter 9 Algebraic Expressions and Identities  
Chapter 11 Mensuration  
Chapter 12 Exponents and Powers  
Chapter 13 Direct and Inverse Proportion  
Chapter 14 Factorisation  
Chapter 15 Introduction to Graphs

### CLASS 9 - ADMISSION TO CLASS X

1. POLYNOMIAL
2. QUADRILATERAL
3. SURFACE AREA AND VOLUME
4. PROBABILITY
5. CIRCLES
6. CONSTRUCTIONS

## SCIENCE

### VIII - ADMISSION TO CLASS IX

CH2 -Micro-Organisms FRIEND OR FOE  
CH9- Reproduction In Animals  
CH10 -Reaching the Age of Adolescence  
CH11 -Force and Pressure  
CH12- Friction

CH13 -Sound

CH14- Chemical effects of electric current

CH16- Light

### **Class 9 - ADMISSION TO CLASS X**

#### **PHYSICS**

Chapter – 10 Gravitation Gravitation: Universal Law of Gravitation, Force of Gravitation of the earth (gravity), Acceleration due to Gravity; Mass and Weight; Free fall.

Chapter – 11 Work and Energy Work, energy and power: Work done by a Force, Energy, power; Kinetic and Potential energy; Law of conservation of energy.

#### **CHEMISTRY**

Unit I: Matter- It's Nature and Behaviour

Chapter – 3 Atoms and Molecules Particle nature and their basic units: Atoms and molecules, Law of constant proportions, Atomic and molecular masses. Mole concept: Relationship of mole to mass of the particles and numbers.

Chapter – 4 Structure of Atom Structure of atoms: Electrons, protons and neutrons, valency, chemical formula of common compounds. Isotopes and Isobars.

PRACTICALS TERM 2 1.Verification of the law of conservation of mass in a chemical reaction

#### **BIOLOGY**

Unit II: Organization in the Living World

Chapter – 13 Why do we fall ill Health and Diseases: Health and its failure. Infectious and Non-infectious diseases, their causes and manifestation.Diseases caused by microbes (Virus, Bacteria and Protozoans) and their prevention; Principles of treatment and prevention. Pulse Polio Programmes.

NO PRACTICALS IN TERM II. BIOGEOCHEMICAL CYCLES FROM CHAPTER NATURAL RESOURCES TO BE A PART OF INTERNAL ASSESSMENT

## **ENGLISH - VI – X**

**GRAMMAR, READING AND WRITING PART AS PER PREVIOUS CLASS ONLY**

**(NO LITERATURE)**