

# **FULL TEST**

## **UNIT -1**

### **BOTANY**

#### **SYLLABUS**

- **Living world**
- **Biological Classification**
- **Plant Kingdom**
- **Morphology of Flowering Plants**
- **Anatomy of Flowering Plants.**

### **ZOOLOGY**

#### **SYLLABUS**

- **Animal Kingdom**
  - (a) **General account and Non chordates Incl. Protozoa**
  - (b) **General account and Chordates**
- **Animal Morphology**
- **Animal tissues**
- **Biomolecules**

### **PHYSICS**

#### **SYLLABUS**

- **Mathematical Tools**
- **Physical World**
- **Units and Measurement**
- **Motion in a Straight Line**
- **Motion in a Plane**
- **Laws of Motion (including Circular Motion)**
- **Work**
- **Energy & Power**
- **System of Particles and Rotational Motion**
- **Gravitation.**

# **CHEMISTRY**

## **SYLLABUS**

- **Some basic Concepts of Chemistry**
- **Structure of Atom**
- **Classification of Elements and Periodicity in properties**
- **Chemical Bonding and Molecular Structure**
- **States of Matter**
- **Gases & Liquids**
- **Thermodynamics**
- **Chemical Equilibrium**
- **Ionic Equilibrium.**

## **UNIT -2**

### **BOTANY**

#### **SYLLABUS**

- **The Cell :**
  - (a) **The Unit of Life**
  - (b) **The Cell Cycle and Cell Division**
- **Transport in Plants**
- **Mineral Nutrition**
- **Photosynthesis in Plants**
- **Respiration in Plants**
- **Plant Growth & Development.**

### **ZOOLOGY**

#### **SYLLABUS**

- **Digestion and Absorption**
- **Breathing and Exchange of Gases**
- **Body fluids and Circulation**
- **Excretory products and their Elimination**
- **Locomotion and Movement**
- **Chemical Coordination and Integration**
- **Neural Control and Coordination.**

### **PHYSICS**

#### **SYLLABUS**

- **Thermal properties of matter**
- **Thermodynamics**
- **KTG**
- **Heat**
- **Oscillation & Waves.**

# CHEMISTRY

## SYLLABUS

- **Redox Reactions & Electrochemistry**
- **Organic Chemistry – (Some Basic Principles & Techniques)**
- **Hydrocarbons**
- **Environmental Chemistry**
- **Hydrogen**
- **s-Block Elements.**

# **UNIT - 3**

## **BOTANY**

### **SYLLABUS**

- **Reproduction organisms**
- **Sexual reproduction in flowering plants**
- **Principles of Inheritance and variation.**

## **ZOOLOGY**

### **SYLLABUS**

- **Reproductive system**
- **Embryo development**
- **Pregnancy and parturition**
- **Reproductive health – birth control**
- **Contraception and Sexually transmitted diseases**
- **Evolution.**

## **PHYSICS**

### **SYLLABUS**

- **Electric Charges and Field**
- **Electrostatics Potential and Capacitance**
- **Current Electricity**
- **Moving Charges and Magnetism**
- **Magnetism and Matter**
- **Electromagnetic Induction**
- **Alternating Current**
- **Electromagnetic Waves**
- **Semiconductor.**

# CHEMISTRY

## SYLLABUS

- **Solid State**
- **Solution**
- **Chemical Kinetics**
- **Surface Chemistry**
- **p-Block Elements Haloalkanes and Haloarenes**
- **Alcohols**
- **Phenols and Ethers.**

# **UNIT - 4**

## **BOTANY**

### **SYLLABUS**

- **Molecular Basis of Inheritance**
- **Strategies for Enhancement in Food Production (Plant Breeding, Single Cell proteins, Tissue Culture)**
- **Microbes in Human Welfare**
- **Organisms and Populations**
- **Ecosystem, Biodiversity and Conservation**
- **Environmental Issues.**

## **ZOOLOGY**

### **SYLLABUS**

- **Human Health & Disease**
  - (a) **Basic Concept of Immunology, Vaccines, Pathogens, Parasites**
  - (b) **Cancer and AIDS,**
- **Adolescence and drug/alcohol abuse;**
- **Strategies for Enhancement in Food Production - Animal Husbandry,**
- **Biotechnology - Principles and Processes,**
- **Biotechnology and its Applications.**

## **PHYSICS**

### **SYLLABUS**

- **Ray Optics and Optical Instruments**
- **Dual Nature of Radiation and Matter**
- **Atoms**
- **Nuclei**
- **Semi-Conductor**
- **Electronics.**

# CHEMISTRY

## SYLLABUS

- Aldehydes
- Ketones and Carboxylic Acids
- Amines
- Biomolecules
- Polymers
- Chemistry in Everyday life
- d & f-Block Elements
- Coordination Compounds.



