

Focus points

Class XI

Biology

- **Chapter -1:** Three domains of life; taxonomy and systematics; concept of species and taxonomical hierarchy; binomial nomenclature.
- **Chapter -2:** Salient features of Major groups Monera, Protista, fungi
- **Chapter -3:** Plant Kingdom Salient features of major groups- Algae, Bryophyta, Pteridophyta and Gymnospermae
- **Chapter -4:** Animal Kingdom: basis of classification, fundamental features, characteristic features of phylum coelentrata, arthropoda, Echinodermata, difference in bony and cartilaginous fishes, features of aves and mammalia
- **Chapter 5:** Morphology of flowering plants: Difference in hypogynous, epigynous and perigynous, Actinomorphic and zygomorphic flowers, Monoceious and dioceious flower
- **Chapter 7:** Cell junctions, Function, location and structure of squamous, cuboidal and columnar epithelium, Difference between Pseudostratified and stratified epithelium, Variety of matrix in various types of connective tissue, Function, location and structure of types of connective tissue, Difference between types of muscular tissue, Neuroglia and Neural tissue, Diagrams of simple epithelial tissue, muscular tissue and neuron.
- **Chapter 8:** Structure of Plasma Membrane, Mitochondria, Plastids along with their diagrams, Differences between RER and SER, Structure of Cilia and Flagella, centrosome and centriole, Types of chromosomes based on the position of centromere
- **Chapter 9:** Ch – 9 Monomeric units of Lipids, Polysaccharides, Nucleic Acid and proteins, Also type of bonds present in them, Structure of primary, secondary, tertiary and quaternary protein, Structure of DNA (in brief), explanation of graph of concept of Activation Energy, explanation of graph of effect of Temperature, pH and substrate concentration on enzymes, Competitive Inhibition with example, 6 classes of enzymes
- **Chapter 10:** Diagram and explanation, stages of Mitosis, 5 substages of Prophase - I of Meiosis, significance of mitosis and meiosis
- **Chapter 13:** Difference between cyclic and noncyclic photophosporylation, Dark reaction, C4 cycle
- **Chapter 14:** Glycolysis, Kreb cycle, Oxidative phosphorylation, Respiratory quotient
- **Chapter 15:** Role of phytohormones
- **Chapter 17** Respiratory volumes, transport of gases
- **Chapter 18** Coagulation of blood, structure of heart, double circulation, cardiac cycle, Disorders of cardiac system
- **Chapter 19** Structure of nephron, formation of urine, regulation of urine formation
- **Chapter 20 :** Structure of muscle fibre, sliding filament theory
- **Chapter 21:** Conduction of nerve impulse, chemical synapse
- **Chapter 22:** Role of Growth hormone, thyroxine, insulin, LH, FSH, testosterone, secondary messenger