

BIOLOGY

Distribution of Marks:

Part-I (Class-XI)

Theory Marks: 85

Part-II (Class-XII)

Theory Marks: 85

Practical: 30

Total : 200

Marks: 85	PART –I (CLASS-XI)	Time: 3:00 Hours
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CHAPTER:1 BIODIVERSITY & CLASSIFICATION

- 1.1 Three-Domain System of Classification
- 1.2 Taxonomic Hierarchy
- 1.3 Salient Features of Kingdoms of Domain Eukarya
- 1.4 Classification of Kingdom Animalia
- 1.5 Classification of Vertebrates
- 1.6 Classification of Viruses
- 1.7 Biodiversity
- 1.8 Species and Speciation

CHAPTER:2 BACTERIA AND VIRUSES

- 2.1 Structure of Bacteria
- 2.2 Endospore Formation in Bacteria
- 2.3 Motility in Bacteria
- 2.4 Flagella
- 2.5 Bacteria; Ecology And Diversity
- 2.6 Importance of Bacteria
- 2.7 Normal Flora
- 2.8 Virus

CHAPTER:3 CELLS AND SUBCELLULAR ORGANELLES

- 3.1 Cells – The Basic Unit Of Life
- 3.2 Cell Theory
- 3.3 Microscopy
- 3.4 Structure of Cell
- 3.5 Prokaryotic And Eukaryotic Cells
- 3.6 Cell Signalling
- 3.7 Membrane Transport Mechanisms
- 3.8 Stem Cells

CHAPTER:4 BIOMOLECULES

- 4.1 Biological Molecules
- 4.2 Types of Bonds In Biology
- 4.3 Condensation (Synthesis) And Hydrolysis
- 4.4 Importance of Water
- 4.5 Carbohydrates
- 4.6 Proteins
- 4.7 Lipids
- 4.8 Nucleic Acids
- 4.9 Conjugated Molecules

CHAPTER:5 ENZYMES

- 5.1 Enzymes
- 5.2 Cofactors And Coenzymes
- 5.3 Mechanism Of Enzyme Action
- 5.4 Factors Affecting The Rate Of Enzyme Action
- 5.5 Enzyme Inhibition
- 5.6 Classification of Enzymes

CHAPTER:6 BIOENERGETICS

- 6.1 Photosynthesis
- 6.2 Cellular Respiration
- 6.3 Photorespiration

CHAPTER:7 STRUCTURAL AND COMPUTATIONAL BIOLOGY

Authors:	1.	Muhammad Nadeem Asghar	2.	Prof. Dr. Farkhanda Manzoor
	3.	Prof.Dr. Atif yaqub	4.	Dr. Muhammad Imran Sohail
	5.	Dt. Robeela Shabir	6.	Zunnorain Ahmed
Editor:		Prof. Dr. Abdul Rauf Shakoori		
		Dt. Robeela Shabir		
		Zunnorain Ahmed		

Board of Intermediate & Secondary Education, Lahore