

School of Biomedical Science

B.Tech Biotechnology Summer/Backlog Semester End Examination - Jul 2024

Duration : 180 Minutes Max Marks : 100

Sem II - Q1UH101T - Remedial Biology

General Instructions
Answer to the specific question asked
Draw neat, labelled diagrams wherever necessary
Approved data hand books are allowed subject to verification by the Invigilator

1)	Define a cell and mention its characteristics.	K1(2)
2)	Explain the cell cycle, and why is it important for cell division and growth	K2(4)
3)	Describe the functions of mitochondria.	K2(6)
4)	Illustrate the fluid-mosaic model of plasma membrane with suitable diagram.	K3(9)
5)	Illustrate how natural selection operates in nature using specific examples, such as Darwin's finches.	K3(9)
6)	Examine how do CAM plants minimize water loss during photosynthesis?	K5(10)
7)	Analyze what is the role of abscisic acid in plant responses to stress.	K4(12)
8)	Examine and explain the classification sytem of Kingdom Animalia.	K5(15)
9)	Examine the pathways through which water moves in plants.	K5(15)
10)	Elaborate the structure and functions of an eukaryotic cell and their organelles.	K6(18)