School of Computing Science and Engineering

Bachelor of Computer Applications
Mid Term Examination - Nov 2023

Duration : 90 Minutes
Max Marks : 50

Sem I - Q1UH120T - Introduction to Biological Technique

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) What is interdisciplinary research in the context of biology and computer science? — K2 (2)

2) Explain the term "bioinformatics" and its role in modern biological research. — K1 (3)

3) Briefly describe the structure and function of DNA in a cell. — K2 (4)

4) What is molecular docking, and how is it utilized in drug design? — K2 (6)

5) Describe the processes involved in the central dogma of molecular biology, including replication, transcription, and translation. — K3 (6)

6) Explain in detail different types of cell organelles. — K3 (9)

7) Explain the structure and function of the endoplasmic reticulum and Golgi apparatus. — K4 (8)

8) Write in detail about genomics and proteomics. — K4 (12)

OR

Write down basic steps involved in drug discovery and drug development. — K4 (12)