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School of Computing Science and Engineering

Bachelor of Computer Applications

Mid Term Examination - Nov 2023

Duration : 90 Minutes

Max Marks : 50

Sem III - Q1UH320T - Computational Techniques in BiologyGeneral 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 are the major organelles in a eukaryotic cell K2 (2)
- 2) Explain the term "bioinformatics" and its role in modern biological research. K1 (3)
- 3) Describe the structure of a eukaryotic cell. K2 (4)
- 4) What is molecular docking, and how is it utilized in drug design? K2 (6)
- 5) Provide an overview of carbohydrates. 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) How are bioinformatics, genomics, and proteomics interconnected in advancing biological knowledge? K4 (12)

OR

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