

School of Computing Science and Engineering

Bachelor of Computer Applications Summer/Backlog
Semester End Examination - Jul 2024

Duration : 180 Minutes
Max Marks : 100

Sem III - Q1UH320T - Computational Techniques in 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) Bioinformatics is primarily concerned with the analysis of _____ data. K1(2)
- 2) What is the primary structure of a protein? K2(4)
- 3) Describe the structure of the nucleus in eukaryotic cells. K2(6)
- 4) What are the basic principles of the cell theory? K3(9)
- 5) Outline the major steps involved in drug discovery and drug designing. K3(9)
- 6) Describe the structure and function of the nucleus in eukaryotic cells. K5(10)
- 7) Explain the significance of computers in biology and provide examples of their applications. K4(12)
- 8) Explain the significance of the cell as the basic unit of life. K5(15)
- 9) What are the major organelles in a eukaryotic cell, and what functions do they perform? K5(15)
- 10) Give a comprehensive overview of the history, development, and current state of bioinformatics K6(18)