

School of Biomedical Science

Department of Biomedical Science

Mid Term Examination

Exam Date: 26 Sep 2023

Time : 90 Minutes

Marks : 50

Sem V -C2UH501T - Genomics and Proteomics

Your answer should be specific to the question asked

Draw neat labeled diagrams wherever necessary

- 1) Describe the role of HU proteins. K2 (2)
- 2) Define the working principle of an operon system. K1 (3)
- 3) Discuss endosymbiosis theory. K2 (4)
- 4) Explain the types and functions of topoisomerase enzymes. K2 (6)
- 5) Interpret the ancestry of chloroplast genome. K3 (6)
- 6) Demonstrate the importance of multiple sequence alignment in genomics. K3 (9)
- 7) Compare global and local sequence alignment. K4 (8)
- 8) Distinguish between disease gene and susceptibility gene. K4 (12)

OR

- Organize the steps for BAC preparation. K4 (12)