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School of Biological and Life sciences

Bachelor of Science Honours in Biomedical Science

Mid Term Examination - Nov 2023

Duration : 90 Minutes

Max Marks : 50

Sem III - C2UC301B - Fundamentals of Molecular 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) Explain semiconservative mode of DNA replication. K2 (2)
- 2) Show the difference between nucleotides and nucleosides by making structures. K1 (3)
- 3) Illustrate the structures of pyrimidines. K2 (4)
- 4) Outline the structures of purines. K2 (6)
- 5) Explain the hyperchromic effect of DNA. K3 (6)
- 6) Identify structure of the nucleosome. What is the evidence for this structure? K3 (9)
- 7) Examine the Hershey and Chase experiment. K4 (8)
- 8) Examine both the prokaryotic and eukaryotic chromosome. K4 (12)

OR

Examine the double helical structure of DNA. K4 (12)