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School of Biomedical Science
Bachelor of Science Honours in Forensic Science
Mid Term Examination - May 2024

Duration : 90 Minutes
Max Marks : 50

Sem II - P1UC220T - Introduction of Molecular 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) Infer the number of C- atoms attached with a deoxyribose pentose sugar with structure. K2 (2)
 - 2) In a double stranded DNA molecule, the percentage of cytosine is 18. What would be the percentage of adenine? K1 (3)
 - 3) Interpret the difference between nucleotides and nucleosides by making structures. K2 (4)
 - 4) Demonstrate the significance of Cot curve. K2 (6)
 - 5) Outline the structures of pyrimidines. K3 (6)
 - 6) Identify structure of the nucleosome. What is the evidence for this structure? K3 (9)
 - 7) List the main points of Meselson–Stahl experiment. K4 (8)
 - 8) Examine the structure of the origin of replication in E. coli. K4 (12)
- OR**
- Analyze the importance of DNA repair mechanism. K4 (12)