

School of Biological and Life sciences

Bachelor of Science in Biochemistry
Mid Term Examination - Nov 2023

Duration : 90 Minutes
Max Marks : 50

Sem I - P1UG101B - Bioorganic and Medicinal Chemistry

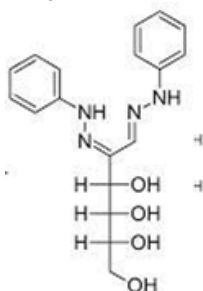
General Instructions

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) Explain osazone synthesis from glucose. K2 (2)



- 2) Compare zwitterionic, Anionic and cationic structure of Amino acids with examples K1 (3)
- 3) Explain stepping down of sugars with mechanism K2 (4)
- 4) Explain N terminal end group analysis of Proteins K2 (6)
- 5) Describe enzyme activity and turnover number. Also discuss the factors affecting enzyme activity K3 (6)
- 6) Analyze hydantoin methods for determination of C-terminal amino acid. K3 (9)
- 7) Make use of Kiliani Fischer synthesis for stepping up alpha-D-Mannose to alpha-D-Glucose. K4 (8)
- 8) Distinguish between co-enzymes and co-factors. Discuss the role of co-enzymes in biological reactions. K4 (12)

OR

- Analyze lock key theory of enzymes and explain the mechanism of enzyme action. K4 (12)