K25FY3620 Pages: 2 Reg No:.....
Name:.....

Third Semester FYUGP Degree (Reg) Examination November 2025

KU3DSCZOO206 - INTRODUCTORY BIOCHEMISTRY

2024 Admission onwards

Time : 1.5 hours Maximum Marks : 50

Section A

Answer any 6 questions. Each carry 2 marks.

1. What is the function of phospholipids in cell membranes?
2. Comment on structural components of lipids?
3. Comment on chemiosmotic Hypothesis?
4. What is the role of carnitine in fatty acid oxidation?
5. Explain how deficiency of Vitamin D leads to rickets in children.
6. What is the significance of the pentose phosphate pathway?
7. Define pH. What is the normal pHof human blood?
8. What is the difference between aldoses and ketoses

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Section B

Answer any 4 questions. Each carry 6 marks.

9. Justify the importance of Vitamin B and Folic Acid in DNA synthesis and pregnancy.
10. Design a balanced weekly diet plan rich in Vitamin A and Vitamin C for a college student.
11. Describe oxidative and non-oxidative deamination, and their significance.
12. Illustrate the pH scale and give its relevance in biological systems.
13. Discuss the role of carbohydrates in cell recognition and signaling, citing examples of glycoproteins or glycolipids.
14. Illustrate the four levels of protein structure with examples, and explain how each level contributes to protein function.

Section C

Answer any 1 questions. Each carry 14 marks.

15. Analyze the importance of UTP and FMN biological system.

16. Describe in detail the glycolytic pathway, including the enzymes and end products.

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