

Q.P. CODE: 113016

Reg. No:

**First Year B.Sc Perfusion Technology Degree Regular/Supplementary
Examinations December 2025**

**Biochemistry
(Common for 2016 and 2024 Scheme)**

Time: 3 Hrs

Max. Marks: 80

- *Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space*
- *Answer all parts of a single question together • Leave sufficient space between answers*
- *Draw table/diagrams/flow charts wherever necessary*

Essays:

(2x10=20)

1. Discuss in detail the steps of anaerobic glycolysis. Add a note on its energetics.
(8+2)
2. What is the normal blood pH. Explain in detail the regulation of blood pH

Short notes:

(6x5=30)

3. Acute complications of Diabetes Mellitus
4. Significance of HMP shunt pathway
5. Fluid Mosaic model of Bio-membrane
6. PUFA
7. Glomerular function test
8. Enzyme inhibition

Answer briefly:

(10x3=30)

9. Functions of Vitamin K
10. Benedict's test
11. Deficiency manifestations of Vitamin A
12. Urinary findings in different types of Jaundice
13. Classify proteins based on their functions
14. Alkaptonuria
15. Key enzymes of Gluconeogenesis
16. Rickets
17. Disaccharides
18. Essential amino acids

CORRECTION / NO-CORRECTION FILE
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QPCODE: 113016

Dated: 17-12-2025

Question No.7

Corrected as "Glomerular function tests."

Question No.13

Replaced with "Mention three functions of Cholesterol in our body."

Corrections/Modifications/Replacement of Questions if any shall be made available to all students. Take the print out of the Correction File in such cases and distribute to all students

(Sd/-)

CONTROLLER OF EXAMINATIONS