

Q.P. CODE: 113016

Reg. No:

**First Year B.Sc Perfusion Technology Degree Regular/Supplementary
Examinations February 2024**

Biochemistry

(2016 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. Define glycolysis. Write the steps of glycolysis. Add a note on its energetics in aerobic and anaerobic states.
2. What is the normal pH of plasma. Explain the renal regulation of blood pH. Add a note on metabolic acidosis.

Short notes:

(6x5=30)

3. Rickets
4. Hormonal regulation of blood glucose
5. Complications of diabetes mellitus
6. Hormones regulating sodium balance in our body
7. Cardiac biomarkers
8. Fluid mosaic model of plasma membrane

Answer briefly:

(10x3=30)

9. Porphyria
10. Fatty liver
11. Phenylketonuria
12. Competitive enzyme inhibition
13. Essential amino acids
14. Night blindness
15. Three products obtained from glycine
16. Functions of HDL in our body
17. Beriberi
18. Clearance tests
