

Q.P. CODE: 113016

Reg. No:

**First Year B.Sc Perfusion Technology Degree Regular/Supplementary
Examinations January 2021**

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. Discuss gluconeogenesis – definition, substrates, reactions, energetics and significance.
2. Describe the sources, daily requirement, biochemical functions and deficiency manifestations of vitamin A.

Short notes:

(6x5=30)

3. Classification of lipids.
4. Different types of enzyme inhibition with suitable examples.
5. Important substances derived from glycine.
6. Biochemical tests to differentiate different types of jaundice.
7. Structure of protein with examples.
8. Lipoproteins and their significance.

Answer briefly:

(10x3=30)

9. Biochemical functions of zinc.
10. Functions of niacin.
11. Bicarbonate as a buffer.
12. Complications of diabetes mellitus.
13. Fatty acid synthase complex.
14. Reducing substances in urine.
15. Albinism.
16. Respiratory acidosis.
17. Enzyme profile of myocardial infarction.
18. Give the normal serum levels of urea, creatinine and potassium.
