

Q.P. CODE: 113016

Reg. No:

**First Year B.Sc Perfusion Technology Degree Supplementary
Examinations August 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 diabetes mellitus. Discuss the metabolic derangements in diabetes mellitus.
Add a note on acute complications of diabetes mellitus.
2. What is jaundice. What are the different types of jaundice. Discuss the laboratory investigations in different types of jaundice.

Short notes:

(6x5=30)

3. Metabolic acidosis and respiratory acidosis
4. Dietary sources, absorption and functions of iron
5. Different types of enzyme inhibition.
6. Functions of vitamin D
7. Isoenzymes
8. Carnitine transporter

Answer briefly:

(10x3=30)

9. Alkaptonuria
10. Scurvy
11. Hyponatremia
12. Chylomicrons
13. Functions of cholesterol
14. Dietary sources and functions of zinc
15. Essential fatty acids
16. Role of hormones in maintaining extracellular fluid volume.
17. Anion gap
18. Three causes of glycosuria.
