

Q.P. CODE: 113016

Reg. No:

**First Year B.Sc Perfusion Technology Degree Regular/Supplementary
Examinations February 2023**

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. What is glycogen. Discuss glycogen metabolism in the body.
2. Name the types of lipoproteins. Explain the role of different lipoproteins briefly, in lipid transport in the body

Short notes:

(6x5=30)

3. Heme synthesis
4. Formation of catecholamines
5. Formation and functions of calcitriol
6. Hyponatremia
7. Hormonal regulation of blood glucose
8. Vitamin C – dietary sources, RDA and biochemical functions in the body

Answer briefly:

(10x3=30)

9. Respiratory compensatory mechanism in acid base regulation
10. Classification of carbohydrates
11. Enumerate aromatic and sulphur containing amino acids
12. Laboratory diagnosis of dyslipidemia
13. V_{max} and K_m value of enzymes
14. Regulatory steps of glycolysis
15. Compounds formed from cholesterol
16. Deficiency manifestations of calcium
17. Anion gap
18. Quaternary structure of proteins
