

Q.P. CODE: 113016

Reg. No:

**First Year B.Sc Perfusion Technology Degree Regular/Supplementary
Examinations February 2022**

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 are enzymes. Discuss the different factors affecting enzyme activity.
2. Discuss the regulation of extracellular water volume. Add a note on water intoxication

Short notes:

(6x5=30)

3. Any three enzyme assays useful in the diagnosis of liver diseases
4. Structure of bio membranes
5. Metabolic acidosis and metabolic alkalosis
6. Homeostasis of blood calcium
7. Deficiency manifestations of vitamin D
8. Role of chylomicrons in lipid transport in the body

Answer briefly:

(10x3=30)

9. Acute intermittent porphyria
10. Biological role of folic acid
11. Role of buffers in the regulation of normal blood pH
12. Fatty acid transport across inner mitochondrial membrane
13. HDL is a good cholesterol fraction. Explain
14. Laboratory diagnosis of diabetes mellitus
15. Suicide enzyme inhibition
16. Phenylketonuria
17. Substrates of gluconeogenesis
18. Zinc
