Q.P. CODE: 113016	Reg. No:

First Year B.Sc Perfusion Technology Degree Supplementary Examinations July 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. Explain the normal blood pH. Discuss the role of plasma buffers and kidney in maintaining acid base balance.
- 2. Outline the pathway of heme synthesis and add a note on porphyrias.

Short notes: (6x5=30)

- 3. Metabolic derangements in diabetes mellitus
- 4. Fluid mosaic model of biomembrane
- 5. Phenyl ketonuria
- 6. Classification of enzymes
- 7. Functions and deficiency manifestations of thiamine
- 8. Significance of HMP shunt pathway

Answer briefly: (10x3=30)

- 9. Competitive inhibition of enzymes
- 10. HDL cholesterol
- 11. Absorption of iron
- 12. Functions of vitamin K
- 13. Polyunsaturated fatty acids
- 14. Functions of selenium
- 15. Secondary structure of protein
- 16. Essential amino acids
- 17. Proteinuria
- 18. Enzymes used to assess liver function
