

**Q.P. CODE: 113016**

**Reg. No: .....**

**First Year B.Sc Perfusion Technology Degree Supplementary  
Examinations August 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. Outline the pathway of beta oxidation of palmitic acid and write it's energetics.
2. Explain the normal blood calcium level. Describe the factors maintaining calcium homeostasis.

**Short notes:**

**(6x5=30)**

3. Formation and excretion of bilirubin
4. Hormonal regulation of blood glucose
5. Biologically important compounds derived from tyrosine
6. Factors affecting enzyme activity
7. Biochemical functions and deficiency manifestations of folic acid
8. Respiratory regulation of blood pH

**Answer briefly:**

**(10x3=30)**

9. Creatinine clearance
10. Homopolysaccharides
11. Clinical significance of troponins
12. LDL cholesterol
13. Functions of vitamin E
14. Acute intermittent porphyria
15. Anion gap
16. Homocystinurias
17. Diabetic keto acidosis
18. Classification of amino acids

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