

Q.P. Code: 102379

Reg. No:.....

**First Year M.Sc Medical Physiology Degree Supplementary
Examinations March 2021**

(FOUNDATION COURSE)

Paper II – Biochemistry

Time: 3 hrs

Max. Marks: 70

- *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*

Essay:

(2x10=20)

1. Define gluconeogenesis. write in detail steps involved in conversion of lactate to pyruvate. Add a note on energetics (1+7+2)
2. Explain normal plasma pH. Describe respiratory and renal mechanisms involved in pH regulation. Add a note on metabolic acidosis (1+3+4+2)

Short Notes:

(6x5=30)

3. Phospholipids
4. Enzyme inhibition
5. Compounds formed from glycine
6. Biochemical functions of vitamin A
7. Genetic code
8. Post translational modifications

Answer briefly:

(10x2=20)

9. Anapleurotic role of TCA cycle
10. Classification of amino acids depending on metabolic fate
11. Acute intermittent porphyria
12. 2 inhibitors of electron transport chain with specific site of action
13. Carnitine
14. Mutagens
15. Biochemical role of copper
16. Albumin: Globulin ratio
17. Restriction endonucleases
18. Gene therapy
