

Q.P. Code: 102379

Reg. No:.....

**First Year M.Sc Medical Physiology Degree Regular/Supplementary
Examinations November 2023**

(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. What are lipoproteins. How are dietary lipids absorbed and transported in our body.
Add a note on hyperlipidemias. (2+5+3)
2. Explain the active form, biochemical role, sources, requirements and deficiency manifestations of vitamin D. (1+4+1+1+3)

Short Notes:

(6x5=30)

3. Classification of enzymes
4. Key steps and enzymes of gluconeogenesis
5. Compounds formed from phenylalanine
6. Post transcriptional modifications
7. Gout
8. Laboratory investigations in jaundice

Answer briefly:

(10x2=20)

9. Selenium
10. Glucose transporters
11. Two biochemical functions of Pyridoxine
12. Essential amino acids
13. Oncogenes
14. Metabolic alkalosis
15. Hartnup's disease
16. Epimerism
17. Two nucleotide analogues as therapeutic agents
18. Anti-sense therapy
