

**Q.P.Code:102379**

**REG. No:.....**

**First Year M.Sc Medical Physiology Degree Supplementary Examinations,  
February 2014**

**(FOUNDATION COURSE)**

**Time: 3 hrs**

**Max. Marks:- 70**

**PAPER II – BIOCHEMISTRY**

- ***Answer all the questions***
- ***Draw diagrams wherever necessary***

**Essay: (2x10=20)**

1. Define gluconeogenesis. Describe briefly the steps of gluconeogenesis and add a note on its regulation (1+7+ 2=10)
2. Explain the Sources, biochemical functions and deficiency manifestations of vitamin C ( 2+6+2=10)

**Short Notes: (6x5=30)**

3. Isoenzymes and its significance with suitable examples
4. Digestion of lipids
5. Mention specialized compounds formed from tyrosine. Add a note on phenyl ketonuria
6. Synthesis of heme
7. Genetic code
8. Inhibitors of electron transport chain

**Answer briefly: (10x2=20)**

9. Role of parathyroid hormone and calcitonin in calcium homeostasis
10. Tertiary structure of protein
11. Low density lipoprotein
12. Acidosis
13. Golgi apparatus
14. Mutagens
15. Albumin / Globulin ratio
16. Western blotting
17. Principle of colorimetry
18. Immunoglobulin G

\*\*\*\*\*