

First Year M.Sc Medical Physiology Degree Supplementary Examinations,
June 2013

(FOUNDATION COURSE)

Time: 3 hrs

Max.Marks:-70

PAPER II- BIOCHEMISTRY

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

Essay: (2x10=20)

1. What is the normal fasting blood sugar level. Name the factors which maintain blood sugar level. Add a note on glycosuria. (1+6+3=10)

2. Mention the steps in the synthesis of hemoglobin. How heme synthesis is regulated. Add a note on thalassemia. (6+3+1=10)

Short Notes: (6x5=30)

3. Serum protein electrophoresis
4. Describe the structure of cell membrane
5. Describe with examples the different types of enzyme inhibition
6. Protein energy malnutrition
7. Gluconeogenesis
8. Chronic complications of diabetes mellitus

Answer briefly: (10x2=20)

9. Essential fatty acids
10. Importance of phospholipids
11. Function of prostaglandins
12. Homocystinuria
13. Maple syrup urine disease
14. Biochemical role of Iron
15. Fluorosis
16. Anion gap
17. Nucleotide excision repair
18. Vandenbergh test
