

First Year M.Sc Medical Physiology Degree Examinations, October 2017

(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 gluconeogenesis. What are the substrates for gluconeogenesis. Describe the steps of gluconeogenesis and a note on regulation. (1+2+5+2)
2. Sources,Biochemical functions,deficiency manifestation of vitamin C. (1+6+3)

Short Notes:

(6x5=30)

3. Enzyme inhibition
4. Calcium homeostasis
5. How heme is catabolized
6. Compounds formed from glycine
7. Renal regulation of pH.
8. ELISA

Answer briefly:

(10x2=20)

9. Anaplerotic role of TCA cycle.
10. Mutagens
11. Rickets
12. Hartnup disease
13. A/G ratio
14. IgM
15. Essential fatty acids
16. Wilson's disease
17. Leukotrienes
18. Alanine amino transferase (ALT)
