



First Professional MBBS Degree Supplementary Examinations, March 2012

BIOCHEMISTRY- PAPER I

Time: 3 Hours

Total Marks: 50

- Answer all questions
- Draw diagrams wherever necessary

Essay

(10)

t: Define Kreb's cycle. Describe the reactions of Kreb's cycle. Add a note on its energetics and significance. (1+6+1+2=10)

Discuss the following:

(2x5=10)

2. Describe the reactions of ketogenesis and its regulation.
3. Define secondary structure of proteins and mention its types. Describe about α -helix.

Write short notes on:

(5x3=15)

4. Define mucopolysaccharides and give two examples.
5. Describe the functions of mitochondria.
6. Define phospholipids and how are they classified.
7. Define feed back inhibition and give two examples
8. What are uncouplers . Give two examples

Answer briefly:

(5x2=10)

9. Define epimers and give two examples
10. Define optimum pH and give one example
11. What are isomerases and give an example indicating the reaction catalysed
12. What is Cori's disease and mention the enzyme defect in it
13. Mention the four functions of albumin

Give precise answers:

(5x1=5)

14. Name the defective enzyme in galactosemia
15. Name two polyunsaturated fatty acids
16. Define active site of an enzyme
17. Name two conditions causing increased urea level
18. Name the enzyme defect in Maple syrup urine disease

