

QP CODE: 1312

Reg No:.....

First B.Sc (MLT) Degree Supplementary Examinations, May 2012

BIOCHEMISTRY

Time: 3 Hours

Total Marks: 100

- Answer all Questions.
- Draw Diagrams wherever necessary.

Essay

(2x10=20)

1. Define pH. Derive Henderson Hasselbach equation. Add a note on blood buffers.
2. Classify carbohydrates giving suitable examples. Add a note on mucopolysaccharides.

Short notes

(10x5=50)

3. Fluid mosaic model of cell membrane
4. Structure of DNA
5. Digestion and absorption of proteins
6. Flame photometer and its applications
7. Levels of organization of proteins
8. Detection of radioactivity
9. Laboratory cleaning solutions
10. Colour reactions of amino acids
11. Phospholipids
12. Purines and pyrimidines

(10x3=30)

Answer briefly

13. Golgi apparatus
14. Iodine number
15. Micelles
16. Passive transport
17. Osmosis
18. Aromatic amino acids
19. Essential fatty acids
20. Glycogen
21. • Composition of Barfoed's reagent • Linkage in maltose • Name two basic amino acids
22. How much milliliters of cone. HCl (Sp. gr. 1.8, 90 % pure) are required to prepare 1litre of 0.5 N HCl solution
