

QP CODE: 103012

Reg No:.....

First Year B.Sc MLT Degree Examinations, September 2015

BIOCHEMISTRY

Time: 3 Hours

Total Marks: 100

- Answer all Questions.
- Draw Diagrams wherever necessary.

Essay

(2x10=20)

1. Classify amino acids based on nutritional importance and metabolic fate. Discuss about denaturation of proteins. (3+3+4=10)
2. Mention the difference between eukaryotic and prokaryotic cells. Discuss the structure and functions of mitochondria. (6+4=10)

Short notes

(10x5=50)

3. Preparation of exactly 0.1 N Hydrochloric acid solution
4. Calibration of pipettes.
5. Principles of colorimeter.
6. Primary structure of proteins.
7. Donnan's membrane equilibrium.
8. Stereo isomerism in mono saccharides.
9. Techniques of using vacuum desiccators.
10. Working principle of magnetic stirrer and its use.
11. Structure of adenine and guanine and mark the various atoms.
12. Mention any five mucopolysaccharides and any one function of each.

Answer briefly

(10x3=30)

13. P U F A.
14. Lecithin.
15. Peroxisomes.
16. Nucleosomes.
17. Collagen helix
18. Deionized water.
19. Gamma radiation.
20. Facilitated diffusion.
21. Anticoagulants used in clinical lab.
22. Iodine number and its significance.
