

QP CODE: 103012

Reg No:.....

**First Year B.Sc MLT Degree Supplementary Examinations
September 2017**

BIOCHEMISTRY

(Common for 2010 and 2015 Scheme)

Time: 3 Hours

Total Marks: 100

- Answer all Questions.
- Draw Diagrams wherever necessary.

Essay

(2x10=20)

1. Discuss the various levels of structural organization of proteins with suitable examples.
2. Describe the laws of light absorption and discuss the instrumentation of spectrophotometer

Short notes

(10x5=50)

3. pH meter.
4. Mitochondria.
5. Deionised water.
6. Laboratory safety.
7. Mucopolysaccharides.
8. Calibration of pipettes.
9. Absorption of amino acids.
10. Structure and functions of t RNA.
11. Disposal of radioactive wastes.
12. Anticoagulants used for blood collection

Answer briefly

(10x3=30)

13. Tris buffer.
14. Lysosomes.
15. Mutarotation.
16. Aldehyde test.
17. Rancidity of fat.
18. Secondary standards.
19. Watson and Crick model of DNA.
20. Donnan membrane equilibrium.
21. Preparation of 500ml of 2 normal H₂SO₄.
22. Standard weights in the weight box supplied with an analytical balance.
