

**QP CODE: 301012**

**Reg. No: .....**

**Third Year B.Sc MLT Degree Regular/Supplementary Examinations  
October 2019**

**Biochemistry – III  
(2016 Scheme)**

**Time: 3 Hours**

**Total Marks: 100**

- Answer all Questions.
- Draw Diagrams wherever necessary.

**Essay**

**(2x10=20)**

1. Describe in detail hemoglobin synthesis
2. Describe enzyme kinetics and Michaelis Menton constant

**Short notes**

**(10x5=50)**

3. Isohydric transport of carbondioxide
4. Co-enzyme
5. Haemoglobin derivatives
6. Electrophoresis of haemoglobin and its interpretations.
7. Factors affecting enzyme action
8. Methods for the estimation of porphyrias
9. Multiple myeloma
10. Immuno-electrophoresis
11. Gas liquid chromatography
12. Aminoacidurias

**Answer briefly**

**(10x3=30)**

13. Thalassemia
14. SDS-PAGE
15. Receptor assay
16. Bohr effect
17. Gel electrophoresis
18. Vandenberg reaction
19. Urinary calculi
20. Clinical significance of creatine kinase
21. Plasma enzyme pattern in liver disease
22. Applications of HPLC

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