QP CODE: 301012 **Reg. No: ……**

Third Year B.Sc MLT Degree Supplementary Examinations April 2019

Biochemistry - III

Time: 3 Hours **Total Marks: 100**

- Answer all Questions.
- Draw Diagrams wherever necessary.

Essay **(2x10=20)**

1. Plasma enzyme pattern in myocardial infarction, liver and muscle diseases and its diagnostic significances
2. Principle, types and applications of electrophoresis.

Short notes **(10x5=50)**

3. Urinary and biliary calculi
4. Haemoglobin variants
5. Chromatography of sugars and lipids
6. Describe the methods for the estimation of porphyrins and their precursors in urine
7. Describe allosteric regulation and feedback inhibition with suitable examples.
8. Principles and methods for the estimation of amylase and lipase.
9. Bilirubin and related chromo proteins
10. Diagrammatic representation of ion exchange chromatography
11. Obstructive jaundice
12. Non-competitive inhibition

Answer briefly **(10x3=30)**

13. Oxygen dissociation curve
14. Gamma glutamyl trans peptidase
15. Define optimum pH of enzyme action and give one example.
16. Applications of radioimmunoassay
17. Principles of chromatography
18. Antigen-antibody reactions
19. Immobilization of enzymes
20. Enzyme activity determination by end point assay
21. Transaminases
22. Significance of 2,3 bisphosphoglycerate

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