

Third Year B.Sc MLT Degree Supplementary Examinations, April 2015

BIOCHEMISTRY-III

Time: 3 Hours

Total Marks: 100

- Answer all Questions.
- Draw Diagrams wherever necessary.

Essay

(2x10=20)

1. Describe the principle, procedure, indications and interpretations of hemoglobin electrophoresis (1+5+2+2= 10)
2. Discuss the basic principle of chromatography. Describe briefly on paper chromatography. (2+ 8=10)

Short notes

(10x5=50)

3. Biosynthesis of heme.
4. Co-enzymes
5. Principles and methods for estimation of glucose 6 phosphate dehydrogenase
6. Mechanism of enzyme action
7. Oxygen dissociation curve.
8. Enzyme linked immunosorbant assay
9. Plasma enzyme pattern in liver disease.
10. Acute intermittent porphyria
11. Biliary calculi analysis
12. Enzyme inhibition

Answer briefly

(10x3=30)

13. Amylase
14. Immobilization of enzymes
15. Gel electrophoresis
16. Hepatic jaundice
17. Regulatory enzymes
18. Antigen antibody reactions
19. Urea clearance
20. Serum glutamate pyruvate transaminase (Alanine aminotransferase)
21. Michaelis menton constant
22. Gamma glutamyl transpeptidase