

Third Year B.Sc MLT Degree Supplementary Examinations March 2017

BIOCHEMISTRY-III

Time: 3 Hours

Total Marks: 100

- Answer all Questions.
- Draw Diagrams wherever necessary.

Essay

(2x10=20)

1. Explain the principle and procedure for chromatographic separation of amino acids.
Discuss the salient features of gas chromatography (2+5+3=10)
2. Explain in detail the synthesis of haem (10)

Short notes

(10x5=50)

3. Principle and procedure of RIA
4. Tests done in hemolytic jaundice
5. Name the coenzymes of niacin and their role in metabolism
6. Diagrammatically represent the electrophoretic pattern in multiple myeloma
7. Van den Bergh reaction
8. Allosteric regulation
9. Classify porphyrias and add a note on acquired porphyrias.
10. Transport of carbon dioxide in blood.
11. Competitive inhibition
12. Creatinine clearance

Answer briefly

(10x3=30)

13. immunofixation
14. Markers of cholestasis
15. Specific gravity of urine
16. Ehrlich's test
17. Sick cell haemoglobin.
18. Effect of temperature on enzyme action
19. Clinical significance of GGT
20. Difference between end point assay and kinetic assay.
21. Sample collection for bilirubin estimation
22. Km value