

Third Year B.Sc MLT Degree Examinations October 2018**Biochemistry - III****Time: 3 Hours****Total Marks: 100**

- Answer all Questions.
- Draw Diagrams wherever necessary.

Essay**(2x10=20)**

1. Explain the principle and procedure of hemoglobin electrophoresis. Discuss the salient features of the supporting media and buffers that can be used (2+5+3)
2. Describe in detail the factors affecting enzyme action

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

3. Principle and procedure for estimation of alkaline phosphatase.
4. Tests done in hepatocellular jaundice
5. Coenzymes role of pyridoxine
6. Diagrammatically represent the components of gas chromatography
7. Ninhydrin reaction
8. Regulation of enzyme action
9. Endosmosis
10. Estimation of hemoglobin.
11. Uncompetitive inhibition
12. Porphyrias

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

13. Significance of 2,3 BPG
14. Markers of muscle injury
15. Micro albuminuria
16. Modified Fouchet's test
17. Sickle cell trait.
18. Clinical significance of amylase
19. Difference between direct and indirect bilirubin.
20. Isozymes of LDH
21. Cofactors
22. Oxygen dissociation curve