QP CODE: 301012 Reg. No: .....

## Third Year B.Sc MLT Degree Supplementary Examinations September 2024 Biochemistry – III

Time: 3 Hours Total Marks: 100

- Answer all questions to the point neatly and legibly Do not leave any blank pages between answers
  Indicate the question number correctly for the answer in the margin space
- Answer all parts of a single question together Leave sufficient space between answers
- Draw Diagrams wherever necessary.

Essay (2x10=20)

1. What are Isoenzyme. Discuss the isoenzymes of creatine kinase. Add a note on the estimation of total creatine kinase and creatine kinase MB isoenzyme in serum.

(2+3+5)

2. What is partition chromatography. What are the common types of Partition chromatography. Discuss one type of partition chromatography in detail.

(2+2+6)

Short notes (10x5=50)

- 3. Methods for the estimation of porphyrins
- 4. Obstructive jaundice
- 5. Enzyme profile in liver disease
- 6. Sodium dodecyl sulfate- polyacrylamide gel electrophoreses
- 7. Endogenous clearance studies
- 8. Glucose 6 phosphate dehydrogenase
- 9. Urinary calculi
- 10. Principle and method of estimation of lipase
- 11. Sickle cell anemia
- 12. Myoglobin

Answer briefly (10x3=30)

- 13. Icteric index
- 14. Gilbert syndrome
- 15.5' nucleotidase
- 16. Glycosylated hemoglobin
- 17. Metallo enzyme
- 18. Heme containing enzyme
- 19. Enzymes as laboratory reagents
- 20. Immuno electrophoreses
- 21. Erlich's test
- 22. Regulation of heme syntheses

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