

**Third Year B.Sc MLT Degree Supplementary Examinations
April (November), 2020
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. Discuss the different types of electrophoresis. Describe in detail about SDS-PAGE
2. How are enzymes classified. Discuss with suitable examples

Short notes

(10x5=50)

3. Urine Aminogram
4. Gas liquid chromatography
5. Sickle cell disease
6. Estimation of ceruloplasmin
7. Competitive inhibition of enzymes
8. Derivation of Michells Mention equation
9. Estimation of urobilinogen
10. Effect of pH on enzyme activity
11. Analysis of Urinary Calculi.
12. Acute intermittent porphyria

Answer briefly

(10x3=30)

13. Phenylketonuria
14. Meth Hb
15. Glucose 6 phosphate dehydrogenase
16. Secondary porphyrias
17. Immunoelectrophoresis
18. Detection of Hb derivatives
19. Significance of lactate dehydrogenase estimation
20. Plasma enzymes in muscle dystrophy
21. Gamma glutamyl transpeptidase
22. Rf value