Third Year B.Sc MLT Degree Regular/Supplementary Examinations May 2023 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 • Draw Diagrams wherever necessary. Essay (2x10=20)1. Name different types of enzyme inhibition. Describe in detail any three mentioning the features, plots and two clinically relevant examples of each (2+6+2)Discuss the steps of heme catabolism Short notes (10x5=50)3. Discuss various factors affecting electrophoresis 4. Describe principle and applications of immunodiffusion 5. Thalassemia 6. Ion exchange chromatography 7. Allosteric regulation 8. Van den Bergh reaction 9. Regulation of heme synthesis 10. Lactate dehydrogenase 11. Principle and method of estimation of Alkaline phosphatase 12. Meth-hemoglobin (10x3=30)Answer briefly 13. Bohr effect 14. Analysis of biliary calculi 15. Oxidoreductases 16. Discuss blood and urinary findings in obstructive jaundice 17. Enzyme profile in muscle disease 18. Effect of substrate concentration on enzyme activity 19. Draw electrophoretic pattern of lipoproteins 20. Porphyria cutanea tarda 21. Creatinine clearance 22.Transaminases

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