QP CODE: 113012	Reg. No:
QF CODE. 113012	Reg. No

First Year B.Sc MLT Degree Supplementary Examinations November 2021

Biochemistry

(2016 Scheme)

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 table/diagrams/flow charts wherever necessary

Essay (2x10=20)

- 1. Discuss how a standard clinical laboratory is set up in a P.H.C. Add a note on the laboratory safety measures. (5+5)
- Enumerate the eukaryotic cell organelles. Discuss the structure and functions of each organelle with a note on their fractionation and Comparison of cell organelles with plant and animal cell (3+4+3)
 Short notes (10x5=50)
- 3. Nephelometry
- 4. Heteropolysaccharides
- 5. Reflectance photometry.
- 6. Functions of phospholipids.
- 7. Function and classification of proteins
- 8. Laboratory first aid measures.
- 9. Donnan membrane equilibrium.
- 10. Colour reactions of amino acids.
- 11. Calibration of automatic pipette.
- 12. Preparation of 500ml. of 1N potassium permanganate.

Answer briefly (10x3=30)

- 13. S.I units
- 14. Nucleosomes.
- 15. Benedict's test.
- 16. Primary standards.
- 17. Double distilled water
- 18. Saponification number.
- 19. Isoelectric precipitation.
- 20. Cleaning of glass wares.
- 21. Water as universal solvent.
- 22. Define molarity. Mention the procedure for preparation of 500 ml of 1M sodium carbonate.
