QP CODE: 113012	Reg. No:

First Year B.Sc MLT Degree Supplementary Examinations February 2019

Biochemistry

(2016 Scheme)

Time: 3 Hours Total Marks: 100

- Answer all questions.
- Draw diagrams wherever necessary.

Essay (2x10=20)

- Discuss the basic steps for drawing a blood specimen. Mention the precautions to prevent hemolysis of blood and the tests affected by hemolysis and add a note on preparation of serum from the blood (4+3+3)
- 2. Define and classify carbohydrates with a note on its functions. Discuss the various types of isomerism with reference to glucose. (3+3+4)

Short notes (10x5=50)

- 3. Polyolefins.
- 4. Turbidimetry.
- 5. Buffer solutions.
- 6. Fluid mosaic model.
- 7. Functions of nucleotides.
- 8. Watson & Crick model of DNA.
- 9. Waste management in laboratory.
- 10. Medico legal problems in the laboratory.
- 11. Applications and hazards of radioactive isotopes.
- 12. Mention the procedure for preparation of 500 ml of 1 M NaOH.

Answer briefly (10x3=30)

- 13. lodine number.
- 14. Anticoagulants
- 15. Cold centrifuge.
- 16. De-ionised water.
- 17. General glass wares.
- 18. Secondary standards.
- 19. Osazone formation in sugars.
- 20. Minimize infections in laboratory workers.
- 21. Standardization of a 10 ml volumetric pipette.
- 22. Define normality. Mention the procedure for preparation of 500 ml. of 3N HCl.
