QP CODE: 202012

Time: 3 Hours

Second Year B.Sc MLT Degree Regular/Supplementary Examinations April 2023

General Microbiology

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

- Describe the different gene transfer mechanisms that occur in bacteria. Discuss its clinical significance. (7+3)
- Enumerate tests for metabolism of proteins and amino acids. Describe in detail any two of them. (5+5)

Short notes

- 3. Bacterial growth curve
- 4. Colony morphology on plated media
- 5. Mc Farland's Standards and its interpretation.
- 6. Rabbit as a laboratory animal
- 7. Bacteriophage typing
- 8. Transposons
- 9. Triple sugar Iron agar Composition Principle and Interpretation.
- 10. Anaerobic culture media
- 11.pH indicators
- 12. Robertson's Cooked Meat Medium

Answer briefly

- 13. Slide coagulase test
- 14. Routes of inoculation in mice
- 15. Chocolate agar
- 16.Standard opacity tubes.
- 17. Agar-agar
- 18. Viable count
- 19. Bacterial Motility testing media
- 20. ONPG test
- 21. Capnophilic bacteria
- 22. Euthanasia

(10x3=30)

(10x5=50)

Total Marks: 100