Sl.No:M21203 Course Code: BP303T

VINAYAKA MISSION'S RESEARCH FOUNDATION (Deemed to be University), SALEM

B.PHARM. DEGREE EXAMINATION – October 2021 Third Semester

PHARMACEUTICAL MICROBIOLOGY

Time: Three hours

Maximum: 75 marks

I. Write essays on any **TWO** questions:

 $(2 \times 10 = 20)$

- 1. Classify different methods of Sterilization. Explain merits and demerits of physical methods of Sterilization. Add a note of Sterilization by filtration.
- 2. Describe in detail about the test for Sterility and explain the Autoclaving process.
- 3. Give the different methods of isolation and identification of bacterial with special emphasis to Gram's Staining technique.

II. Write short answers on any **SEVEN** questions:

 $(7 \times 5 = 35)$

- 4. Elaborate study about growth and reproduction of bacteria.
- 5. Describe Microbiological Assay of Antibiotics by disc-diffusion method.
- 6. Describe classification of bacteria based on shape and size.
- 7. Explain any two methods of evaluation of disinfectants.
- 8. Differentiate between gram positive and gram negative bacteria.
- 9. Types of culture media.
- 10. Discuss radiation sterilization.
- 11. Maintenance of Lab culture.
- 12. Media for Animal cell culture.

III. Write short notes on:

 $(10 \times 2 = 20)$

- 13. Lytic and Lysogenic cycle.
- 14. Primary culture.
- 15. Bacterial Flagella.
- 16. Biological indicator.
- 17. Tyndallization.
- 18. Classification of micro organism based on temperature.
- 19. Examples of gram-positive bacteria.
- 20. Common staining techniques.
- 21. Define Phototrophs and Chemotrophs.
- 22. Define Endotoxin.