

**VINAYAKA MISSION'S RESEARCH FOUNDATIONS, SALEM
(Deemed to be University)****B.Sc. (ALLIED HEALTH SCIENCE) &M.Sc(INTEGRATED
PROGRAMS IN CARDIAC TECHNOLOGY)DEGREE
EXAMINATION February 2020
First Year****MICROBIOLOGY**

Time: Three hours

Maximum: 75 marks

I. Write an essay on any ONE of the following: (1 x 20 = 20)

1. Describe the structure and organelles in bacteria. Add a note on the difference between Gram positive & Gram negative bacteria with suitable diagrams.
2. Write the various methods of sterilization. Add a note on moist heat sterilization.

II. Write short essays on any TWO of the following: (2 x 10 = 20)

3. Write about Nosocomial infections.
4. Write notes on different types of bacterial structure media.
5. Agglutination reactions.
6. Write about the classification of fungal diseases and list out the causative agents.

III. Write short answers on any SEVEN of the following: (7 x 5 = 35)

7. Discuss about the different methods of cultivation of virus.
8. Write the mode of transmission of Rabies virus. Add a note on its structure.
9. Write about Type I hypersensitivity.
10. Write the Principle and procedure involved in Gram staining technique.
11. Name three antiviral agents and its mode of action.
12. Write the pathogenesis of Neisseria.
13. Write the pathogenicity and clinical symptoms of Vibrio cholerae.
14. T cell receptors.
15. Write the pathogenicity of tetanus.
16. Write the treatment and prophylaxis of Tuberculosis.