

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

**MBBS DEGREE EXAMINATION – February 2020  
SECOND YEAR**

**MICROBIOLOGY – PAPER I**

**Time : Three hours**

**Maximum : 50 marks**

**Answer ALL questions  
Draw diagrams wherever necessary**

**SECTION – A**

**I. Write essay on : (1 x 8 = 8)**

1. Define Hypersensitivity. Classify various types of hypersensitivity reactions. Describe Type I Reaction.

**II. Write short notes on : (4 x 3 = 12)**

2. Bacterial capsule
3. Autoimmunity
4. Anaerobic culture methods
5. Polymerase Chain Reaction (PCR)

**III. Answer briefly : (5 x 1 = 5)**

6. Parts of microscope
7. Enumerate the correct order of staining reagents used for Gram Staining.
8. Define Immunity.
9. Haptens
10. Coombs Test

**SECTION – B**

**I. Write essay on : (1 x 8 = 8)**

11. Classify Mycobacteria. Describe the Laboratory diagnosis, treatment and prophylaxis of pulmonary tuberculosis.

**II. Write short notes on : (4 x 3 = 12)**

12. Non-suppurative complications of streptococcus pyogenes.
13. Castaneda's medium
14. Bacterial vaccines
15. Pyrexia of Unknown origin (PUO).

**III. Answer briefly : (5 x 1 = 5)**

16. List the standard test for syphilis (STS).
17. Different types of leprosy.
18. Name any two differences between chlamydiae and virus.
19. Neil-Mooser reaction.
20. Name any four organism causing sexually transmitted disease.