

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

MBBS DEGREE EXAMINATION – August 2019
SECOND YEAR

MICROBIOLOGY – PAPER I

Time : Three hours

Maximum : 80 marks

Answer ALL questions
Draw diagrams wherever necessary

SECTION – A

I. Write essay on : (1 x 10 = 10)

1. Describe in detail the antigen-antibody reactions and the phenomenon, mechanism and the applications of precipitation reaction with example.

II. Write short notes on : (4 x 5 = 20)

2. Contributions of Robert Koch.
3. Types of culture media.
4. Write a note on bacterial cell wall with suitable illustration.
5. Define sterilization and enumerate various physical methods of sterilization.

III. Answer briefly : (5 x 2 = 10)

6. Classify bacteria based on arrangement of flagella.
7. Name two capsulated bacteria.
8. Draw the structure of immunoglobulin.
9. Toxins of Escherichia coli.
10. Microscopic characteristics of Vibrio cholera.

SECTION – B

I. Write essay on : (1 x 10 = 10)

11. Describe the morphological characteristics, antigenic structure, clinical features and laboratory diagnosis of Treponema pallidum.

II. Write short notes on : (4 x 5 = 20)

12. Write a short note on the principle and uses of fluorescent microscope in medical Microbiology.
13. Write a note on laboratory diagnosis of clostridium tetani.
14. Describe the different types of toxins produced by Staphylococcus aureus.
15. Bacillary dysentery.

III. Answer briefly : (5 x 2 = 10)

16. Classify streptococci.
17. Illustrate the microscopical appearance of Neisseria species.
18. Mention two morphological characteristics of Mycoplasma.
19. Define satellitism.
20. List the clinical types of leprosy.