

Sl.No. M21612

Course Code: 3200202

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

**Pharm.D DEGREE EXAMINATION - July 2019
Second Year**

PHARMACEUTICAL MICROBIOLOGY

Time: Three hours

Maximum: 70 marks

I. Write essays on any **TWO** questions: (2 x15 = 30)

1. Elaborate sterilization and its various methods with examples.
2. Explain in detail microbiological assay of antibiotics.
3. Write in detail about asexual reproduction of bacteria and explain growth and cultivation of bacteria.

II. Write short answers on any **SIX** questions: (6 x 5 = 30)

4. Discuss about chick - martin test.
5. Write a short note on PCR.
6. Illustrate – typhoid.
7. Explain differential media in detail.
8. Write a brief note on anaerobic cultivation.
9. Explain membrane filtration in detail.
10. Write down the various types of immunity.
11. Describe about neutralization.

III. Write short notes on any **FIVE** question: (5 x 2 = 10)

12. Mention acidic stain with example.
13. Define antiseptic.
14. State about broad spectrum with example.
15. Write about oligodynamic activity.
16. Write note on transport media.
17. What is MPN count?
