

QP Code: 323006

Reg. No.....

**Third Semester B.Pharm Degree Supplementary Examinations  
June 2019**

**Pharmaceutical Microbiology**

**(2017 Scheme)**

**Time: 3 Hours**

**Max. Marks: 75**

- Answer all questions
- Draw diagrams wherever necessary

**Essays**

**(2x10=20)**

1. Describe the phases of normal growth curve of typical bacterium. Add a note on raw materials used for bacterial culture media.
2. Explain the principle, procedure, merits, demerits and applications of moist heat sterilization.

**Short Notes**

**(7x5=35)**

3. Nutritional requirements of bacteria
4. Working and application of electron microscope
5. Determination of Chick Martin coefficient
6. Sterility testing of pharmaceutical products
7. Microbiological assay of vitamins
8. Design of aseptic rooms
9. Microbial spoilage of pharmaceutical products

**Answer Briefly**

**(10x2=20)**

10. Differentiate between prokaryotes and eukaryotes
11. Difference between viable count and total count
12. What is tyndallization
13. What is resolving power of a microscope
14. What are biological indicators
15. The principle of ditch-plate method
16. Types of flagella
17. Transformed cell cultures
18. Give mode of action of any two disinfectant compounds
19. Principle of Gram's staining technique

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