

II B. Pharmacy I Semester Supplementary Examinations, Oct/Nov - 2020
PHARMACEUTICAL MICROBIOLOGY

Time: 3 hours

Max. Marks: 70

- Note: 1. Question paper consists of two parts (**Part-A** and **Part-B**)
2. Answering the question in **Part-A** is Compulsory
3. Answer any **FOUR** Questions from **Part-B**
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PART -A

1. a) Write about the difference between disinfectant and antiseptic with specific examples. (2M)
- b) Differentiate between active immunity and passive immunity. (2M)
- c) Classify bacteria based on their temperature requirements with specific examples. (2M)
- d) Write a note on Differential and Enriched media. (2M)
- e) Explain the terms synchronous growth and generation time. (2M)
- f) Differentiate between Exotoxins and Endotoxins. (2M)
- g) Differentiate between Total count and Viable count. (2M)

PART -B

2. a) Describe the structure of a bacterial cell with a neat labeled diagram. (10M)
- b) Explain about the pharmaceutical significance of bacteria with examples. (4M)
3. a) Write a note on morphological features and cultivation of viruses. (8M)
- b) Discuss different techniques applied to measure the bacterial growth. (6M)
4. a) Define and classify sterilization methods. Describe the design and operation of a Hot air oven. (8M)
- b) Add a note on preservation of microbial cultures. (6M)
5. a) Discuss about different evaluation methods of disinfectants. (10M)
- b) Write a note on pharmaceutical significance of viruses. (4M)
6. a) What are membrane filters and what type of substances are sterilized by using membrane filters. (6M)
- b) Discuss about bacterial growth in batch and continuous culture and describe the effect of salt concentration on growth of bacteria. (8M)
7. a) Discuss about culture media used for bacteria and fungi. (6M)
- b) Write about theory of staining and differential staining. (8M)