

**II B. Pharmacy I Semester Supplementary Examinations, May - 2019**  
**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) What is pasteurization? (2M)
- b) Why virus is called as an obligatory parasite? (2M)
- c) What are antiseptics? Give examples. (2M)
- d) Write important biosafety measures to be used in microbiology lab. (2M)
- e) How to prevent cholera? (2M)
- f) What are biosensors? Give their applications. (2M)
- g) Write in brief of BCG vaccine. (2M)

**PART -B**

2. a) With a neat sketch describe fungal cell structure. (6M)
- b) Write in detail on Gram staining methods. (8M)
3. a) Explain the methods used for bacterial counting. (7M)
- b) Explain how microbes adapt to the changes in nutrients and radiant energy. (7M)
4. a) With a neat sketch explain the construction, working and uses of autoclave. (7M)
- b) Write a note on methods used for testing microbial susceptibility to antibiotic. (7M)
5. a) Write steps involved in the rDNA technology. Write its advantages and disadvantages. (10M)
- b) Write in brief on chemical mutagens. (4M)
6. Write the source of infection, diagnosis, prevention and control of (14M)
  - (a) Tuberculosis
  - (b) Tetanus
  - (c) Hepatitis
7. Write the procedure, applications and disadvantages of the following methods (14M)
  - (a) Cup-plate method
  - (b) Turbidimetric assay