

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