

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 **THREE** Questions from **Part-B**
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PART -A

1. a) Describe cell structure of a prokaryote. (3M)
- b) Write the ingredients used for preparation of nutrient broth. (4M)
- c) What is drug resistance? How it can occur? (4M)
- d) Write the etiology and mode of transmission of tuberculosis. (4M)
- e) Write the advantages and disadvantages of genetically engineered products. (3M)
- f) Write in brief of BCG vaccine. (4M)

PART -B

2. a) Write a note on role of Pasteur in the development of microbiology. (6M)
- b) Discuss the biochemical tests used for identification of bacteria. (10M)
3. a) Explain the methods used for cultivation of anaerobic bacteria. (8M)
- b) Describe how microbes adapt to the changes in temperature and osmotic pressure. (8M)
4. a) Classify methods used for sterilization. Write in detail on cold sterilization methods. (10M)
- b) Write the principle and methods used for sterility testing of eye drops. (6M)
5. a) With a neat sketch explain DNA replication process. (10M)
- b) What is mutagenesis? Explain its significance. (6M)
6. Write the source of infection, diagnosis and control of (16M)
(a) Cholera (b) Syphilis (c) Leprosy (d) Diphtheria
7. a) Write the principle and procedure involved in the assay of vitamin B12. (8M)
- b) Discuss the role of microbes as a source of enzymes. (8M)