

Subject Code: B132104/R13

II B. Pharmacy I Semester Supplementary Examinations May/June - 2017

PHARMACEUTICAL MICROBIOLOGY

Time: 3 hours

Max. Marks: 70

Question Paper Consists of **Part-A** and **Part-B**
Answering the question in **Part-A** is Compulsory,
Three Questions should be answered from **Part-B**

PART-A

1. (a) What is Pasteurization?
- (b) Describe the bacterial growth curve.
- (c) Define the terms sterilization, disinfection, antiseptics and sanitation.
- (d) Enlist the diagnosis tests for Diphtheria, Tuberculosis and Typhoid.
- (e) Explain the mutagenesis.
- (f) Write the Principle involved in the microbiological assay of Cyanocobalamin.

[3+4+4+4+3+4]

PART-B

2. (a) Define chemotherapeutic agents. Explain the classification of antimicrobial drugs.
- (b) Write the level 1 biosafety measures in microbiology laboratory. [10+6]
3. (a) Explain the principles and methods involved in the microbiological assays of Penicillin, Riboflavin and Glutamic acid.
- (b) Write a note on genetic engineered products. [12+4]
4. Explain the Pharmaceutical significance of bacteria, fungi, algae and viruses. [16]
5. (a) Describe the effects of temperature, electricity, osmotic pressure, hydrostatic pressure and vibrations on microorganisms.
- (b) Explain the enumeration of bacteria. [10+6]
6. (a) What is gene regulation? Explain lac operon and tryptophan operon.
- (b) Write a note on DNA replication. [8+8]
7. Explain the etiology, source of infection, mode of transmission, diagnosis and prevention of leprosy, gonorrhea, bacillary dysentery and infection hepatitis. [16]
