

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

- (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

- (a) Define chemotherapeutic agents. Explain the classification of antimicrobial drugs.
(b) Write the level 1 biosafety measures in microbiology laboratory. [10+6]
- (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]
- (a) Describe the effects of temperature, electricity, osmotic pressure, hydrostatic pressure and vibrations on microorganisms.
(b) Explain the enumeration of bacteria. [10+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, gonorrhoea, bacillary dysentery and infection hepatitis. [16]
