

Code: 13R00502

R13

B.Pharm III Year I Semester (R13) Regular & Supplementary Examinations November/December 2016

PHARMACEUTICAL MICROBIOLOGY

Time: 3 hours

Max. Marks: 70

PART – A

(Compulsory Question)

- 1 Answer the following: (10 X 02 = 20 Marks)
- (a) What is the theory of spontaneous generations?
 - (b) What kinds of inclusion bodies do prokaryotes have?
 - (c) What are 'Autotrophs' and 'Heterotrophs'?
 - (d) Classify bacteria based on their temperature requirement.
 - (e) What are the properties of a good disinfectant?
 - (f) Give examples of cold sterilization.
 - (g) What are the diagnostic tests for Typhoid?
 - (h) Name the source of infection for syphilis.
 - (i) Name the microbial sources of Cephalosporins.
 - (j) What are the therapeutic applications of Penicillin?

PART – B

(Answer all five units, 5 X 10 = 50 Marks)

UNIT – I

- 2 Discuss the contributions of Lister, Pasteur and Koch to Microbiology.

OR

- 3 Enumerate the differential characteristics of Prokaryotes and Eukaryotes.

UNIT – II

- 4 Write a detailed note on types of nutrient media and add a note on the cultivation of aerobic and anaerobic microorganisms.

OR

- 5 Describe bacterial growth in batch and continuous culture and add a note on synchronous growth.

UNIT – III

- 6 Explain the mode of action and applications of chemotherapeutic agents.

OR

- 7 Write a note on: (a) Drug resistance. (b) Bio-safety measures.

UNIT – IV

- 8 Explain the etiology, diagnosis, source of infection and mode of transmission of Bacillary Dysentery.

OR

- 9 Discuss the immunization methods, prevention and control of leprosy.

UNIT – V

- 10 Write the principle and method of assay of Tetracyclines.

OR

- 11 Write the microbial source and applications of any two vitamins.
