

Code: 15R00304

B.Pharm II Year II Semester (R15) Regular Examinations May/June 2017

PHARMACEUTICAL MICROBIOLOGY

Time: 3 hours

Max. Marks: 70

PART - A

(Compulsory Question)

- 1 Answer the following: (10 X 02 = 20 Marks)
- (a) Write scope of theories in microbiology.
 - (b) Differentiate the prokaryotes and eukaryotes.
 - (c) Write mechanism and limitations of filtration sterilization.
 - (d) Explain about source of infection of malaria.
 - (e) Explain about diagnostics tests of cholera.
 - (f) Write assay principle of streptomycin.
 - (g) Write identification methods of microorganisms.
 - (h) Write microbial source for enzymes.
 - (i) Write significance of algae in pharmaceuticals.
 - (j) Differentiate endotoxins and exotoxins.

PART - B

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

UNIT - I

- 2 Write in detail about pharmaceutical significance of fungi and viruses.

OR

- 3 Write in detail about characterization and identification methods of microorganisms.

UNIT - II

- 4 Write a note on:

- (a) Bacterial growth curve.
- (b) Isolation and preservation of microorganisms.

OR

- 5 Write a note on:

- (a) Types of nutrient media.
- (b) Nutritional types based on energy source.

UNIT - III

- 6 Write about the sterility testing methods.

OR

- 7 Write about the factors affecting sterilization and disinfection.

UNIT - IV

- 8 Write the etiology, source of infection, mode of transmission, diagnosis and prevention methods of the diphtheria.

OR

- 9 Write in detail about the epidemiology of typhoid.

UNIT - V

- 10 Write about the official microbial limit tests of penicillins as per IP.

OR

- 11 Write about the microbial source and applications of amino acids.
