

Code: 15R00304

SS

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

**PHARMACEUTICAL MICROBIOLOGY**

Time: 3 hours

Max. Marks: 70

**PART - A**

(Compulsory Question)

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- 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.

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