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Code: 15R00304

## B.Pharm II Year I Semester (R15) Supplementary Examinations June 2017

## PHARMACEUTICAL MICROBIOLOGY

Time: 3 hours Max. Marks: 70

## PART – A

(Compulsory Question)

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- 1 Answer the following:  $(10 \times 02 = 20 \text{ Marks})$ 
  - (a) Explain the discovery and contribution of Antony van Leeuwenhoek to microbiology.
  - (b) Describe germ theory of disease.
  - (c) Describe nutritional types of bacteria.
  - (d) What is synchronous growth and write its advantages.
  - (e) Differentiate between sterilization and disinfection with suitable examples.
  - (f) Write a note on decimal reduction time and generation time.
  - (g) Write a note on prevention and control of tuberculosis.
  - (h) Describe schick test.
  - (i) Write the microbial source and applications of antibiotics.
  - (j) Write the principle involved in microbiological assay of amino acids.

## PART - B

(Answer all five units,  $5 \times 10 = 50 \text{ Marks}$ )

UNIT – I

2 Discuss the theory of spontaneous generation versus Biogenesis.

OR

3 Explain the classification and identification of microorganisms.

UNIT 41

Discuss various techniques for the isolation of microorganisms in pure culture and mention advantages and disadvantages.

OR

5 Explain the methods for determining bacterial numbers, mass and cell constituents.

[UNIT - III]

Write the principle involved in moist heat sterilization and mention construction, operation and applications of an autoclave with a neat labeled diagram.

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7 Discuss the official methods of sterility testing of pharmaceutical products.

UNIT - IV

Write about etiology, pathogenesis and source of infection, diagnosis, prophylaxis and treatment of Typhoid.

OR

- 9 (a) What is Bacillary dysentery? Write the source of infection, mode of transmission, prevention & control of it.
  - (b) Discuss the diagnostic tests of malaria.

UNIT – V

Write the principle and method involved in assay of streptomycin antibiotic.

**OR** 

- 11 (a) Discuss the principle and pharmaceutical applications of biosensors.
  - (b) Define genetic engineering and discuss a pharmaceutical product prepared by it.

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