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Code No: B132104

(R13)

(SET - 1)

## II B. Pharmacy I Semester Supplementary Examinations, May - 2019 PHARMACEUTICAL MICROBIOLOGY

Time: 3 hours

Max. Marks: 70

Note: 1. Question paper consists of two parts (Part-A and Part-B)

2. Answering the question in Part-A is Compulsory

Answer any THREE Questions from Part-B

## PART -A

 a) Write the principle involved in dry heat sterilization. (4M) b) Write short notes on sterilization indicators. (3M) c) Differentiate between gram positive and gram negative bacteria. (4M) d) Discuss briefly on the growth requirements of bacteria. (4M) e) Write short notes on bacterial conjugation. (4M) Distinguish between autotrophs and heterotrophs. f) (3M) PART -B Enumerate various methods for the evaluation of bactericidal agents. Explain the 2. a) (10M) procedure for determination of Phenol-Coefficient. What are the factors that influence the action of disinfectants? (6M) b) 3. a) Define pure culture and discuss about various methods of isolation of pure culture. (10M) b) Differentiate bacteria from molds with respect to their morphology and laboratory (6M) cultivation. Write a note on etiology, diagnosis, mode of transmission, immunization methods, 4. (16M) prevention and control of the following diseases: (i) Leprosy (ii) Typhoid (iii) Syphilis (iv) Infection Hepatitis. a) Discuss about exponential growth and generation time. Describe the effect of salt (8M) concentration on growth of bacteria. b) What are membrane filters and what type of liquids are sterilized by using (8M) membrane filters. a) What is sterility testing and discuss the methods of sterility testing. (8M)

- b) Write a note on principles and methods involved in assay of antibiotics. (8M)
- a) Write a note on continuous and synchronous growth, Rideal walker coefficient. (8M)
  - b) Discuss different techniques applied to measure the bacterial growth. (8M)

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