

B.Pharm III Year I Semester (R13) Supplementary Examinations November 2017

PHARMACEUTICAL MICROBIOLOGY

Time: 3 hours

Max. Marks: 70

PART – A

(Compulsory Question)

- 1 Answer the following: (10 X 02 = 20 Marks)
- Write the concept of spontaneous generation.
 - State Koch's postulates.
 - Differentiate enriched and enrichment media with suitable examples.
 - Write the significance of synchronous growth.
 - What is pasteurization? Write its applications.
 - Why is positive control used in sterility test?
 - Write the causative agent and treatment of hepatitis.
 - Name and write the modes of transmission of any two bacterial diseases.
 - List commercial uses of any four enzymes.
 - Define 'Antibiotics'. Give the microbial source to produce streptomycin sulphate.

PART – B

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

UNIT – I

- 2 Describe in detail steps involved in replication of virus.

OR

- 3 Define and classify fungi. Describe its methods of reproduction in detail.

UNIT – II

- 4 Explain in detail any four efficient methods of cultivations of anaerobic bacteria.

OR

- 5 Enlist and explain any four methods of isolation of pure culture. Write its significance in bacteriology.

UNIT – III

- 6 Describe in detail how disinfectants are evaluated.

OR

- 7 Explain the mode of action, procedure, apparatus and applications of sterilization by ethylene oxide.

UNIT – IV

- 8 Briefly explain the diagnostic tests for typhoid and malaria.

OR

- 9 Write the causative agent, mode of transmission, control and prevention of tuberculosis and syphilis.

UNIT – V

- 10 Explain the principle, procedure and interpretation of microbial assay of penicillin G.

OR

- 11 What is genetic engineering? Explain in detail the production of any one genetic engineered product.
