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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: $(10 \times 02 = 20 \text{ Marks})$
 - (a) Write the concept of spontaneous generation.
 - (b) State Koch's postulates.
 - (c) Differentiate enriched and enrichment media with suitable examples.
 - (d) Write the significance of synchronous growth.
 - (e) What is pasteurization? Write its applications.
 - (f) Why is positive control used in sterility test?
 - (g) Write the causative agent and treatment of hepatitis.
 - (h) Name and write the modes of transmission of any two bacterial diseases.
 - (i) List commercial uses of any four enzymes.
 - (j) Define 'Antibiotics'. Give the microbial source to produce streptomycin sulphate.

PART - B

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

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.

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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.
