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Code: 15R00304

B.Pharm II Year I Semester (R15) Supplementary Examinations June 2018 PHARMACEUTICAL MICROBIOLOGY

Time: 3 hours

1

Max. Marks: 70

PART – A

(Compulsory Question)

- Answer the following: (10 X 02 = 20 Marks)
 - (a) Write the concept of spontaneous generation.
 - (b) State Koch's postulates.
 - (c) Differentiate enriched and selective media with suitable examples.
 - (d) Classify bacteria on temperature.
 - (e) What is tyndallization? Write its significance in microbiology.
 - (f) Mention the media used for sterility testing.
 - (g) Write the causative agent and treatment of syphilis.
 - (h) List various modes of transmission of bacterial diseases.
 - (i) List commercial uses of any four enzymes.
 - (j) Define 'Antibiotics' and 'Vitamins' with suitable examples.

PART – B

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

UNIT – I

2 Draw a structure of typical virion. Describe the steps involved in replication of virus.

OR

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

UNIT – IN

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

OR

5 Explain any four methods of isolation of pure culture. Write a note on its preservation.

UNIT – III

6 Describe in detail how disinfectants are evaluated.

OR

- 7 (a) Explain the mode of actions of aldehydes and alcohols as disinfectants.
 - (b) Add a note on filtration sterilization.

UNIT – IV

8 Briefly explain the diagnostic tests for typhoid and cholera.

OR

9 Write the causative agent, mode of transmission, control and prevention of disease tuberculosis and gonorrhea.

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.

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