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B.Pharm II Year I Semester (R15) Regular & 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) What are prokaryotes? Give examples.
 - (b) Write the contribution of Joseph Lister.
 - (c) What is 'population doubling time'?
 - (d) Write the composition and role of each ingredient used in nutrient agar media.
 - (e) List merits of cold sterilization.
 - (f) List the ideal properties of disinfectants.
 - (g) Write the prevention and control methods of food poisoning.
 - (h) Name four virus and diseases caused by them.
 - (i) List genetic engineered products with their uses.
 - (j) Give the microbial source to produce penicillins and riboflavin.

PART - B

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

UNIT – I

2 List various media used for cultivation of fungi. Describe its methods of reproduction in detail.

OR

3 Define and classify the types of virus. Explain the various types of cultivation of virus.

[UNIT - II]

4 Classify types of culture media. Mention the salient features of each media along with examples.

OR

What is total and viable counting of bacteria? Explain any two methods of each in detail.

UNIT – III

6 Explain the various methods of evaluation of bacteriostatic activity of disinfectants.

OR

With neat diagram, explain the principle, procedure, merits and demerits of hot air oven.

UNIT - IV

8 Explain the diagnostic method to detect typhoid and malarial parasite in human blood.

OR

9 Write the causative agent, mode of transmission, and immunization methods to prevent diphtheria and cholera.

UNIT – V

- 10 Explain the principle involved in microbial assay of:
 - (a) Tetracyclines.
 - (b) Vitamin B₂.

OR

- 11 Add a note on:
 - (a) Genetic engineered products.
 - (b) Bio-sensors in analysis.
