Roll No.

Total No. of Pages : 02

Total No. of Questions : 13

B.Pharma(Sem.-3) PHARMACEUTICAL MICROBIOLOGY Subject Code : BP-303T M.Code :75107 Date of Examination : 16-12-22

Time: 3 Hrs.

Max. Marks: 75

INSTRUCTIONS TO CANDIDATES :

- 1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
- 2. SECTION-B contains THREE questions carrying TEN marks each and student has to attempt any TWO questions.
- 3. SECTION-C contains NINE questions carrying FIVE marks each and student has to attempt any SEVEN questions.

SECTION-A

1. Answer briefly :

- a. Viable count
- b. Disinfectants
- c. Grams Staining
- d. Sterilization
- e. Sterility testing

Differentiate between

- f. Prokaryotes and Eukaryotes
- g. Toxin and Toxoid
- h. Phase contrast and dark field microscopy. Give method used for sterility testing of:
- i. Catguts and Eye ointments.
- j. Why it is necessary to wrapped brown paper before autoclaving?

SECTION-B

- 2. Explain sterilization methods with examples of each.
- 3. Give different methods for the evaluation of disinfectants.
- 4. What is microbial assay? Give method for the assay of vitamins.

SECTION-C

- 5. Give morphological classification of bacteria? Explain nutritional requirements for the exponential growth of bacteria.
- 6. Explain the principle and procedure of staining techniques.
- 7. Enumerate efficiency of sterilization methods.

8. Write short note on

- a. Laminar air flow
- b. Standardization of antibiotics?
- 9. Explain sterility testing of insoluble solids and soluble solids.
- 10. Highlight factors effecting microbial spoilage.
- 11. Enumerate preservation of pharmaceutical products.
- 12. Give applications of cell cultures in pharmaceutical industry.

13. Write short note on:

- a. Sterility indicators
- b. Cultivation of fungi.

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.