

DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE

End Semester Examination – Winter 2023

Date: 06.01.2024

Course: B. Pharmacy Sem: III
Subject Name: Pharmaceutical Microbiology Subject Code-BP303T
Max Marks: 75 Duration: 3 Hrs.

Instructions:

<https://pharmacyindia.co.in/>

1. All questions are compulsory
2. Draw diagrams / figures wherever necessary
3. Figures to right indicate full marks

Q. 1. Objective Type Questions (Answer all the questions) (10 x 2) = 20

- i) Draw a well labeled diagram of Laminar Air Flow equipment.
- ii) Differentiate between prokaryotic & eukaryotic cell.
- iii) List the methods used for evaluation of disinfectants.
- iv) Classify disinfectants.
- v) Define Microbiology. Enlist different branches of Microbiology.
- vi) List various types sterilization monitors.
- vii) Classify the viruses
- viii) Write the morphological classification of bacteria.
- ix) Classify staining techniques.
- x) Differentiate between bacteria and viruses

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Q. 2. Long Answers (Answer 2 out of 3) (2 x 10) = 20

- i) Discuss different methods used for measurement of bacterial growth.
- ii) Discuss main sources of contamination in aseptic area and methods of prevention.
- iii) Classify the methods of sterilization and explain heat related methods.

Q. 3. Short Answers (Answer 7 out of 9) (7 x 5) = 35

- i) Define pure culture and explain methods used for isolation of pure culture.
- ii) Explain scope & importance of Microbiology related to Pharmaceutical field.
- iii) Explain bacterial growth curve.
- iv) Discuss methods used for microbiological assay of antibiotics.
- v) Explain designing of aseptic area.
- vi) Explain properties of fungi and add a note on classification of fungi.
- vii) Explain in detail IMViC test.
- viii) Explain lytic cycle of bacteriophages in detail.
- ix) Enlist types of spoilage and explain factors affecting microbial spoilage.

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