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## DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE

## End Semester Examination - Winter 2022

Date: 15.02.2023

Course:

B. Pharmacy

Sem: III

Subject Name:

Pharmaceutical Microbiology

Subject CodeBP303T

Max Marks: 75

Duration: 3 Hr.

Instructions:

1. All questions are compulsory

2. Draw diagrams / figures wherever necessary

3. Figures to right indicate full marks

 $(10 \times 2) = 20$ 

Q. 1. Objective Type Questions (Answer all the questions)

- Differentiate between gram-positive and gram-negative bacteria.
- ii) Write about bacterial growth curve.
- Classify bacterial staining.
- iv) Define i) Sterilization ii) D yalue
- List factors influencing disinfection
- vi) List general properties of viruses
- vii) Differentiate between optical and electron microscope
- viii) Classify clean area as per WHO.
- ix) List ideal characteristics required for preservatives used in pharmaceutical products
- x) Classify methods used for measurement of bacterial growth
- Q. 2. Long Answers (Answer 2 out of 3)

 $(2 \times 10) = 20$ 

- Discuss main sources of contamination in aseptic area? How will you prevent it?
- ii) Classify methods of sterilization and explain in detail moist heat sterilization.
- Define microbiology. Write about various branches of microbiology. Add a note its scope and importance in pharmacy
- Q. 3. Short Answers (Answer 7 out of 9)

 $(7 \times 5) = 35$ 

ii) Explain IMViC test,

( i)

- iii) Give the in-detail classification of disinfectants,
- Explain Phenol coefficient test along with its advantages and disadvantages.

Explain ultra-structure of bacterial cell with suitable diagram.

- Explain lytic cycle and lysogeny of viruses
- vi) Describe microbial assay of antibiotics.
- vii) Explain tests used for assessment of microbial spoilage
- viii) Write the detail about the applications of animal cell culture in pharmaceutical industry and research.
- Enlist types of spoilage and give the factors affecting microbial spoilage.