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Paper Id: 233584 Sub Code: BP-303T

Roll No.

B PHARM (SEM III) THEORY EXAMINATION 2022-23 PHARMACEUTICAL MICROBIOLOGY

Time: 3 Hours

Total Marks: 75

Note: Attempt all Sections. If require any missing data; then choose suitably.

SECTION A

1. Attempt all questions in brief.

 $10 \times 2 = 20$

- (a) Mention any two reagents used for acid fast staining.
- (b) Classify physical method of sterilization.
- (c) Mention type of media used for cultivation of fungi.
- Write in brief about the principle of sterility testing. (d)
- (e) What is the role of agar in culture media?
- (f) What are Rodac plates?
- (g) Write the incubation conditions for cell culture.
- (h) List out different types of spoilage in pharmaceuticals.
- (i) Write a note on Grade B room.
- Write a short note on bio-indicators for thermal sterilization. (j)

SECTION B

2. Attempt any two parts of the following:

 $2 \times 10 = 20$

- Enlist various methods of evaluation of bacteriostatic and bactericidal disinfectant. (a) Explain any method of bacteriostatic disinfectant.
- Write about importance of microbial preservation technique. Write procedure, merit, (b) and demerit of any four preservation techniques.
- Explain the source, mechanism of sterilisation, merit, demerits, and applications of (c) sterilization using radiations.

SECTION C

Attempt any five parts of the following: 3.

 $7 \times 5 = 35$

- (a) Write in detail about the construction and design of aseptic foom.
- (b) What are the methods used for the evaluation of microbial stability of formulations?
- (c) Explain in detail about the principle involved in autoclaving.
- (d) Describe steps involved in replication of virus.
- (e) Explain IMViC tests used for identification of bacteria.
- (f) Write briefly on different methods used for microbiological assay of antibiotics.
- (g) Give the principle and main characteristic of phase contrast microscopy.