**Printed Pages:01** **Sub Code: BP-303T**

**Paper Id:** 233584 **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 x 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.
(d) Write in brief about the principle of sterility testing.
(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.
(j) Write a short note on bio-indicators for thermal sterilization.

**SECTION B**

**2. Attempt any *two* parts of the following:** **2 x 10 = 20**

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

**SECTION C**

**3. Attempt any *five* parts of the following:** **7 x 5 = 35**

(a) Write in detail about the construction and design of aseptic room.
(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.

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