PAPER ID-411888

Roll No: | | | | | | | | | | | | | |

**BPHARM**
**(SEM III) THEORY EXAMINATION 2021-22**
**PHARMACEUTICAL MICROBIOLOGY**

***Time: 3 Hours*** ***Total Marks: 75***

**Note:** 1. Attempt all Sections. If require any missing data; then choose suitably.

**SECTION A**

**1. Attempt *all* questions in brief.** **10 x 2 = 20**

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|---|---|
| a. | Outline the differences between Prokaryotic and eukaryotic cell. |
| b. | Enlist (only names) equipments employed in large scale sterilization. |
| c. | Explain the uses of biological Sterility Indicators. |
| d. | Discuss the differences between gram positive and gram-negative bacteria. |
| e. | Explain the advantages of Chick Martin Test over Rideal Walker test. |
| f. | Illustrate the Media suitability test and Growth promotion test. |
| g. | Classify clean area in pharmaceutical industry. |
| h. | Enlist various sources of contamination in sterile area. |
| i. | Write a note on bacterial spoilage. |
| j. | Why are eye drops advised to be used or discarded within 30 days after opening? |

**SECTION B**

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

| | |
|---|---|
| a. | Discuss morphology, Classification and Reproduction of Fungi. |
| b. | Classify sterilization methods and explain sterilization by autoclaving. |
| c. | Discuss the design of an aseptic area. What special precautions are to be kept before designing to reduce the risk of contamination? |

**SECTION C**

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

| | |
|---|---|
| a. | Explain the bacterial growth curve. |
| b. | Discuss the biochemieal tests for microbial identification in brief. Elaborate the Indole production test. |
| c. | Write a descriptive note on Sterility testing of Liquids and Solids as per IP. |
| d. | Describe in detail the methods for viral cultivation. |
| e. | Elaborate the methods for standardization of Vitamins. |
| f. | Enlist the applications of cell eulture in pharmaceutical Industry. |
| g. | Write a note on different types of preservatives used in pharmaceutical industry. |

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