



PAPER ID-310136

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Subject Code: BP303T

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**BPHARM**  
**(SEM III) THEORY EXAMINATION 2023-24**  
**PHARMACEUTICAL MICROBIOLOGY**

**TIME: 3 HRS****M.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**

a.	What are facultative anaerobes? Give one example.
b.	What was the contribution of Alexander Fleming in microbiology?
c.	Give difference between Antiseptic and Disinfectant with example.
d.	Elucidate the term Sterilization. Enlist any four equipments used for sterilization.
e.	Define D-value and Z-value.
f.	Explain about secondary cell culture.
g.	Write the abbreviation of "HEPA" filter, with its use.
h.	Admit (only names) all the physical parameter required for bacterial growth.
i.	Define the term Mycology and Phycology.
j.	Give a note on microbial spoilage.

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

a.	Expound about biochemical test (IMViC) along with principle, procedure and results.
b.	Give the morphological classification of bacteria with suitable example and diagram.
c.	Discuss various types of animal cell culture. Write any two application of cell culture in pharmaceuticals and research.

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

a.	What is isolation of pure culture? Explain any one isolation method for pure culture.
b.	Describe the bacterial growth curve with all phases.
c.	Write about gram staining in detail with its principle and procedure.
d.	Define virus. Classify them in detail with example.
e.	Illustrate phenol coefficient test used for evaluation of disinfectant.
f.	Discuss the factors affecting microbial spoilage.
g.	Elaborate about microbiological assay with example.