

B.Pharm 2nd Year, 1st Semester (Supplementary) Examination – 2024

Sub: Pharmaceutical Microbiology

Time: 3Hrs.

Full Marks :75

Answer any FIVE questions

1. Define and differentiate:
 - (a) Exotoxin and Endotoxin
 - (b) Bacteria and Virus
 - (c) Log phase and Lag phase of bacterial growth.

3×5 = 15
2.
 - (a) Write the difference between flagella and fimbriae.
 - (b) Define dye and stain – point out the basic differences.
 - (c) Define antibiotics with examples.

3×5 = 15
3. Define biological indicators; Write the name of the stain used as biological indicator in filtration sterilization. Briefly discuss the bacteria proof filter.

5+5+5=15
4. Write a note on bacterial nutrition. Why distilled water is used in the preparation of bacteriological culture media. Define blank incubation.

10+3+2 = 15
5. Write in brief the beneficial role of microbes and their pharmaceutical applications. What is plasmid?

12+3 =15
6. Define Gram Staining. Explain the Gram Staining procedure in brief. What is mordant?

3+10+2=15
7.
 - (a) Define sterilization, Explain -why three successive days are required for tyndallization sterilization?
 - (b) Define Probiotics?

4+6+5 = 15