

SEMESTER EXAMINATION-2021
CLASS - B.SC. INDUSTRIAL MICROBIOLOGY - V SEM
BIM-S501: Pharmaceutical Microbiology

Time: 3 hours

Max. Marks: 70

Min. Pass: 40%

Note: Question Paper is divided into two sections: **A and B**. Attempt both the sections as per given instructions.

SECTION-A (SHORT ANSWER TYPE QUESTIONS)

Instructions: Answer any five questions in about 150 words each. Each question carries six marks. (5 X 6 = 30 Marks)

- Question-1: Differentiate between quality control and quality assurance.
Question-2: What are the different components of pharmaceutical premises?
Question-3: What is environmental monitoring? Write the name of different types of environmental monitoring used in pharma industry.
Question-4: What is microbial limit test (MLT)?
Question-5: Write short notes on GMP.
Question-6: What are biological and chemical indicators used in pharma industry?
Question-7: What are the different routes of infection in laboratory?
Question-8: What are antiseptics?
Question-9: What is preservative efficacy test?
Question-10: Write short notes on disinfectants.

SECTION-B (LONG ANSWER TYPE QUESTIONS)

Instructions: Answer any FOUR questions in detail. Each question carries 10 marks. (4 X 10 = 40 Marks)

- Question-11: What are pyrogens? How pyrogen test is performed in rabbit?
Question-12: What is antibiotic assay? Explain any one antibiotic assay.
Question-13: What are biosafety cabinets? Explain different types of biosafety cabinets with suitable examples.
Question-14: What is sterilization? What are the different types of sterilization methods used in pharma industry?
Question-15: What are the good laboratory practices (GLP) used in pharma industry?
Question-16: Explain pharmaceutical premises? What are the government norms for pharmaceutical premises?
Question-17: What are the laboratory infections? Explain the occurrence of tuberculosis in lab workers.
Question-18: What are endotoxins? How bacterial endotoxin test is performed?