



Sessional I (Odd) Semester Examination, Sep 2025

Roll no.....

Name of the Course and semester: B. Pharm- III sem

Name of the Paper: Pharmaceutical Microbiology

Paper Code: BP 303T

Time: 1.5-hour

Maximum Marks: 30

Note:

- (i) This question paper contains three sections.
- (ii) All the questions are compulsory.
- (iii) Write only options in answer. Any cutting and overwriting will not consider for evaluation. (For MCQs only)

Section-A

Q1. Multiple Choice Questions – Attempt all questions (10 x 1 = 10 Marks)

1. Thermostat in autoclave is made of [CO1]
 - a. Tungsten
 - b. Nichrome wire
 - c. Stainless steel
 - d. Copper
2. Which one is not referred to BOD incubator? [CO1]
 - a. Biological oxygen demand incubator
 - b. Microbiological Incubator
 - c. Refrigerated Incubator
 - d. Bacteriological incubator
3. *Mycobacterium tuberculosis* was discovered by [CO1]
 - a. Joseph Lister
 - b. Jonas Salk
 - c. Robert Koch
 - d. Louie pasture
4. Organisms use Carbon-dioxide as carbon source is [CO1]
 - a. Lithotrophs
 - b. Organotrophs
 - c. Heterotrophs
 - d. Autotrophs
5. The temperature range of mesophiles is between [CO1]
 - a. 15-45 degree C
 - b. 40-75 degree C
 - c. 0-20 degree C
 - d. 35-55 degree C

6. Find the odd one. [CO2]
 - a. Streptococcus pneumoniae
 - b. E-coli
 - c. Neisseria gonorrhoea
 - d. Staphylococcus aureus
7. Which is not characteristic feature of Gram -ve bacteria [CO2]
 - a. More complex wall
 - b. Retain safranin
 - c. Inner lipopolysaccharide layer
 - d. Thin peptidoglycan cell wall
8. A coliform bacteria produce gas from lactose within [CO2]
 - a. 12 hrs
 - b. 24 hours
 - c. 30 minutes
 - d. 48 hours
9. Which value is used to determine the contact time for any sterilization process. [CO2]
 - a. D-value
 - b. F value
 - c. K value
 - d. Z value
10. Incineration kills bacteria by [CO2]
 - a. Inhibiting protein synthesis
 - b. Oxidation effect
 - c. Replication of DNA & RNA
 - d. Cell wall destruction

Section B

- Q. 2 Short Questions: Attempt any two questions (2x5 = 10 Marks)
- a. Give the contribution of following in Microbiology field. [CO1]
 - i. Zacharia Zenson
 - ii. Joseph Lister
 - iii. Edward Jenner
 - iv. Robert Koch
 - v. Louie Pasteur
 - b. Give any one Reduction potential source, Nitrogen source and Energy source as nutritional requirement for microorganisms. [CO1]
 - c. What are coliform bacteria? Name any three coliform bacteria. [CO2]

Section C

- Q. 3 Long questions: Attempt any one question (1x10 = 10 Marks)
- a. Write about common isolation techniques of bacteria. Why to preserve bacteria? [CO1]
 - b. Write the biochemical test for differentiating *E.coli* and *E.aerogen*. [CO2]