

M.Sc. (Micro) Semester - 3 (CBCS) Examination
OCT/NOV-2025 (AS PER SYLLABUS YEAR JUNE-2024)
Pharmaceutical and Medical Microbiology (Core (New-23))

Time: 2:30 Hours**Marks:70****Instructions:**

1. All questions are compulsory.
2. Figures to the right indicate marks.

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- Que.1 Do as direct (any seven) (14)
- 1) Enlist the molecular diagnosis method for the detection of disease.
 - 2) Define multi-drug resistance.
 - 3) What is Gnotobiology, and how does it work?
 - 4) What is QSAR? mentioned its application.
 - 5) Define grafting and its types in detail.
 - 6) What is immunotherapy? Give suitable examples.
 - 7) Describe immunosuppressive therapies in brief.
 - 8) Explain the role of a microbiologist in clinical research
- Que.2 Answer the following (Any Two Questions) (14)
- 1) Describe the pharmacokinetics and pharmacodynamics and explain its importance.
 - 2) Discuss the preclinical and clinical trials.
 - 3) Explain the role of targets and receptors in drug discovery and development
- Que.3 Answer the following (Any Two Questions) (14)
- 1) Explain any one viral disease in detail.
 - 2) Explain the pathogenesis, diagnosis, prevention and treatment of any two Gram-negative bacteria.
 - 3) Discuss the host-parasite relationship in detail.
- Que.4 Answer the following (Any Two Questions) (14)
- 1) Write a note on the malignant transformation of cells.
 - 2) Discuss the immunotherapy and its types.
 - 3) Explain the immune response to viruses and intracellular parasites
- Que.5 Answer the following (Any Two Questions) (14)
- 1) Write a note on the concept of multidrug resistance.
 - 2) Explain immunodiagnostics methods in detail.
 - 3) Write a note on types of vaccines and explain any two vaccines in detail.
