

QP Code: 211019

Reg. No.....

**Second Year B.Sc Medical Microbiology Degree Regular/Supplementary
Examinations December 2025
Paper VI – General Microbiology**

(2016 Scheme)

Time: 3 hrs

Max Marks: 100

- *Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space*
- *Answer all parts of a single question together • Leave sufficient space between answers*
- *Draw table/diagrams/flow charts wherever necessary*

Long Essays (2x15=30)

1. What is drug resistance. Describe various mechanisms of drug resistance. Add notes on in-vitro methods for detection of drug resistance.
2. Which are the methods of sterilisation. Mention the factors influencing sterilisation. Describe dry heat method of sterilisation.

Short Essay (2x10=20)

3. Describe different methods of antibiotic susceptibility testing.
4. Sterilisation by radiation.

Short Answers (6x5=30)

5. Extra chromosomal genetic materials.
6. Bacterial growth curve.
7. Filtration.
8. Koch's postulates.
9. Bacterial flagella.
10. IMViC test.

Comment on (10x2=20)

11. Thioglycolate broth.
12. Rideal walker test.
13. Ethylene oxide sterilisation.
14. Restriction endonucleases.
15. Catalase test.
16. Negative staining.
17. Enriched media.
18. Pasteurisation.
19. Psychrophilic bacteria.
20. Antibiotic stewardship.
