

QP Code: 211019

Reg. No.....

**Second Year B.Sc Medical Microbiology Degree Regular/Supplementary
Examinations March 2024
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. Describe in detail the bacterial cell's structure. Highlight the importance of bacterial appendages in bacterial pathogenesis.
2. Describe the different anti-microbial drug sensitivity tests and discuss the techniques of the assay of antibacterial substances.

Short Essay

(2x10=20)

3. Briefly explain the different staining methods in bacterial identification.
4. Enumerate and explain the physical methods of sterilization used in tertiary care hospitals.

Short Answers

(6x5=30)

5. McIntosh Fildes Jar.
6. Maintenance of stock cultures.
7. Phase contrast microscopy.
8. Extended Spectrum β lactam (ESBL).
9. Ames test.
10. Oxidation Fermentation test.

Comment on

(10x2=20)

11. Define transport media with examples.
12. Plasmids.
13. Define transposon.
14. Tyndallisation.
15. Triple Sugar Iron agar.
16. Biological indicators of Sterilisation.
17. Mesophilic bacteria.
18. Draw neat labelled diagram of structure of bacterial spore.
19. Name four microorganisms used for antibiotic production.
20. Resolving power of a microscope.
