

QP Code: 211019

Reg. No.....

**Second Year B.Sc Medical Microbiology Degree Supplementary
Examinations November 2021**

**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. Define antibiotics. What are the mechanism of action of antibiotics. Write in detail about antibiotic resistance
2. Classify culture media. Write in detail about commonly used culture media in microbiology laboratory

Short Essay (2x10=20)

3. Define sterilization and disinfection. Discuss the principle, working, application and sterilization control of hot air oven
4. Write briefly about microbial metabolism. Describe the mechanism of ATP synthesis

Short Answers (6x5=30)

5. Contributions of Louis Pasteur
6. Bacterial spore
7. Role of microorganism in industry
8. Testing of disinfectants
9. Physical factors influencing the growth of bacteria
10. Mutation

Comment on (10x2=20)

11. L forms
12. Minimum Inhibitory Concentration (MIC)
13. Transposons
14. Gram positive cell wall
15. Bacterial Growth curve
16. Transformation
17. Write two uses of dark ground microscopy
18. Write four uses of gram stain
19. Lawn culture
20. Capnophilic bacteria
