

QP Code: 201019

Reg. No.....

**Second Year B.Sc. Medical Microbiology Supplementary Examinations
October 2018
General Microbiology
(2014 Scheme)**

Time: 3 Hours

Total Marks: 100

- **Answer all the questions**
- **Draw diagrams wherever necessary**

Essay

(2x15=30)

1. Draw a neat diagram of the bacterial cell and label the parts. Describe briefly the various organelles and its functions.
2. Define sterilization and disinfection. List the different methods of moist heat sterilization. Briefly describe the autoclave, its functions and uses in the hospital.

Short Essay

(2x10=20)

3. Name the differential staining methods and its application in the microbiology laboratory
4. Light microscope and its uses

Short Notes

(6x5=30)

5. Koch's postulates
6. Sugar fermentation in biochemical reactions
7. MIC testing of antibiotics
8. Bacterial growth curve and events taking place in each phase
9. Name TWO enrichment media, its preparation and uses
10. Transduction and its clinical implication

Answer Briefly

(10x2=20)

11. Role of micro-organisms in industry
12. Mesophilic bacteria
13. Gamma irradiation in sterilization
14. Lawn cultures
15. Bacteriocins
16. Spheroplasts
17. Name TWO Transport media and its uses
18. Robertson's cooked meat medium
19. Sporicidal disinfectants
20. Membrane filters
