

QP Code: 201019

Reg. No.....

Second Year B.Sc. Medical Microbiology Examinations October 2017

General Microbiology

Time: 3 Hours

Total Marks: 100

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

Essay

(2x15=30)

1. Define bacterial flagellum and endoflagella. What are the different types of motility, give examples. What are the different flagellar arrangements. What are the different methods for demonstration of flagella.
2. List the different methods of transmission of genetic material between bacteria. Briefly describe the different methods by which antibiotic resistance develops in bacteria.

Short Essay

(2x10=20)

3. Gram staining and its clinical importance
4. Dry heat sterilization

Short Notes

(6x5=30)

5. Contributions of Robert Koch
6. Biochemical tests: oxidase and catalase
7. E test
8. Sporocidal disinfectants
9. Modified AFB staining
10. Bacterial spore

Answer Briefly

(10x2=20)

11. Inspissation
12. Capnophilic bacteria
13. In use tests for disinfectants
14. Pour plate techniques
15. Name FOUR anaerobic bacteria
16. L forms of bacteria
17. Silver impregnation methods
18. Blood agar
19. Kirby Bauer disc diffusion method
20. Stab culture
