

QP Code: 211019

Reg. No.....

Second Year B.Sc Medical Microbiology Degree Examinations October 2018

Paper VI – General Microbiology

(2016 Scheme)

Time: 3 hrs

Max Marks: 100

- **Answer all Questions**
- **Draw diagrams wherever necessary**

Long Essays

(2x15=30)

1. Describe in detail the different gene transfer methods in bacteria.
2. Enumerate the bacterial enzymes used for the identification of bacteria. Discuss in detail any three tests to detect them.

Short Essay

(2x10=20)

3. Describe the different methods of testing of antibiotic sensitivity
4. Describe the mechanism of ATP synthesis in microbial metabolism

Short Answers

(6x5=30)

5. Polymerase chain reaction (PCR)
6. Bacterial flagella
7. Hot air oven
8. Capsular staining
9. Plasmids
10. Quality control in media preparation

Comment on

(10x2=20)

11. Mc Farland standard
12. Sporicidal disinfectants
13. Enrichment media
14. Koch's postulates
15. Chocolate agar
16. Stroke culture
17. Alcohol fermentation
18. Cold sterilisation
19. Biphasic media
20. Cell wall synthesis inhibitors
