

QP Code: 201019

Reg. No.....

Second Year B.Sc. Medical Microbiology Supplementary Examinations

April 2018

General Microbiology

Time: 3 Hours

Total Marks: 100

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

Essay

(2x15=30)

1. Define bacterial spore. Draw and label a bacterial spore. Name sporulating bacteria with diagram of spore arrangement. How spores are destroyed and add a note on uses of spores.
2. Define antibiotics. What are the mechanisms of action of commonly used antibiotics. What are the methods for testing antibiotic sensitivity. Add a brief note on antibiotic resistance.

Short Essay

(2x10=20)

3. Laboratory autoclave
4. AFB staining and its modifications

Short Notes

(6x5=30)

5. Contributions of Louis Pasteur
6. Biochemical tests; IMViC
7. Enriched media: preparation and uses of any one
8. Bacterial conjugation
9. Negative staining
10. Draw and label bacterial flagellum. Flagellar arrangements with examples. Add a note on flagellar stains

Answer Briefly

(10x2=20)

11. Role of micro-organisms in industry
12. Thermophilic bacteria
13. Cold sterilization
14. Streak cultures
15. Bacterial plasmids
16. Protoplasts
17. Name TWO selective media and give its uses
18. Principle of MR and VP tests
19. Aldehydes as disinfectants
20. Bacterial cell wall
