

**QP Code: 201019**

**Reg. No.....**

**Second Year B.Sc. Medical Microbiology – October 2016**

**General Microbiology**

**Time: 3 Hours**

**Total Marks: 100**

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

**Essay**

**(2x15=30)**

1. Describe the structure of a typical bacterial cell. Elaborate the ultra structure of flagella and spore.
2. Briefly describe the microbial metabolism. Describe the mechanism of ATP synthesis.

**Short Essay**

**(2x10=20)**

3. Physical factors influencing growth of bacteria.
4. Classify the methods of dry and moist heat sterilisation and discuss each.

**Short Notes**

**(6x5=30)**

5. L forms of bacteria
6. What are the characteristics of an ideal disinfectant and mention examples
7. Anaerobic culture methods
8. Fluorescent microscope.
9. Enumerate the systems of classification of bacteria.
10. Bacterial growth curve.

**Answer Briefly**

**(10x2=20)**

11. Pili
12. Chick –Martin test for phenol coefficient determination.
13. Selenite F broth.
14. Lawn culture.
15. R factor
16. Plasmids
17. Adansonian classification of bacteria.
18. Spirochaete staining.
19. Cell wall acting antibiotics
20. Transport media

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