

QP Code: 203019

Reg. No.....

Second Year B.Sc. Medical Microbiology Examinations October 2017

METHODOLOGY AND INSTRUMENTATION

Time: 3 Hours

Total Marks: 100

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

Essay

(2x15=30)

1. Define centrifugation: principle, different types and applications of centrifuges
2. What is chromatography. What is the principle, theory classification and application of HPLC.

Short Essay

(2x10=20)

3. Automation in microbiology
4. What is spectrophotometry. Describe principle and application.

Short Notes

(6x5=30)

5. ELISA in microbiology
6. Electron microscopy
7. pH meter and pH measurements
8. Guinea pigs: care, handling and uses
9. Incubators in microbiology
10. IRIA.

Answer Briefly

(10x2=20)

11. Barrier precautions
12. Immunochromatography
13. Autoclave
14. Standard biosafety techniques
15. Colorimetry applications
16. Dark ground illumination
17. Rabbit : handling and bleeding
18. Cold room
19. Anaerobic culture systems
20. Inspissator
