

QP Code: 213019

Reg. No.....

**Second Year B.Sc Medical Microbiology Degree Examinations
October 2018**

Paper VIII – Methodology and Instrumentation

(2016 Scheme)

Time: 3 hrs

Max Marks: 100

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

Long Essays

(2x15=30)

1. Explain the principle, working, staining and specimen preparation of electron microscope.
2. Describe the principle, types and application of ELISA (Enzyme Linked Immunosorbent Assay).

Short Essays

(2x10=20)

3. High Performance Liquid Chromatography (HPLC) - theory and practical applications.
4. Describe the principle and applications of spectrophotometry

Short Answers

(6x5=30)

5. Cold room
6. Types of gel electrophoresis
7. Gas- liquid chromatography
8. Fluorimeter
9. Density gradient centrifuge
10. Radio imaging

Comment on

(10x2=20)

11. Ethylene oxide steriliser
12. Autoradiography
13. Principle of colorimetry
14. Different types of centrifuge
15. pH meter
16. Relative centrifugal force (RCF)
17. Turbidometry
18. Scintillation counting
19. Immune electrophoresis
20. 2D gel electrophoresis
