

QP Code: 213019

Reg. No.....

**Second Year B.Sc Medical Microbiology Degree
Regular/Supplementary Examinations July 2021**

Paper VIII – Methodology and Instrumentation

(2016 Scheme)

Time: 3 hrs

Max Marks: 100

- *Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space*
- *Answer all parts of a single question together • Leave sufficient space between answers*
- *Draw Diagrams wherever necessary*

Long Essays

(2x15=30)

1. Explain the general principles, classification and applications of chromatography
2. Describe the principle, types and application of Enzyme Linked Immunosorbent Assay (ELISA)

Short Essays

(2x10=20)

3. Describe the principle, staining, specimen preparation and application of Electron microscopy
4. Describe the principle, types and application of centrifuge in microbiology

Short Answers

(6x5=30)

5. Principle and uses of ethylene oxide sterilizer
6. Biosafety cabinet
7. Immunoelectrophoresis
8. Principles and application of colorimetry
9. Applications of Radioimmuno assay
10. Autoclave

Comment on

(10x2=20)

11. Resolving power of the microscope
12. pH measurements
13. Water bath
14. Cold room
15. Candle jar
16. Two uses of Dark ground microscope
17. Steam sterilizers
18. Two uses of turbidometer
19. Four uses of incubator in microbiology
20. Scintillation counting
