

QP Code: 213019

Reg. No.....

**Second Year B.Sc Medical Microbiology Degree Supplementary
Examinations April 2020 (January 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. Enumerate the different types of microscope. Write in detail about the principles, instrumentation and application of phase contrast microscope
2. Explain spectrophotometry. Describe the principle and its application

Short Essays (2x10=20)

3. Describe the principle, different methods and applications of Radio Immuno Assay (RIA)
4. Explain the principle, types and application of Gel electrophoresis

Short Answers (6x5=30)

5. Competitive ELISA and its application
6. Cold room
7. High Performance Liquid Chromatography (HPLC)
8. Ultracentrifugation
9. McIntosh-Fildes jar
10. Hot air oven

Comment on (10x2=20)

11. Nephelometry
12. Cold centrifuge
13. Membrane filters
14. Biological Oxygen Demand (BOD) incubator
15. Inspissator.
16. Two uses of fluorescent microscope
17. Laminar flow
18. pH meter
19. Beer Lambert law
20. RPM
