

QP Code: 213019

Reg. No.....

**Second Year B.Sc Medical Microbiology Degree Regular/Supplementary
Examinations May 2022**

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. Discuss in detail the classification, principle, working and uses of biological safety cabinets.
2. Discuss in detail the principle, working and applications of fluorescent microscope. Add a note on the stains used.

Short Essays

(2x10=20)

3. Radio immunoassay
4. Principle and uses of high performance liquid chromatography

Short Answers

(6x5=30)

5. Immunoelectrophoresis.
6. Anaerobic cultivation apparatus.
7. Density gradient centrifugation
8. Sterilisation control of hot air oven
9. Spectrophotometer
10. Cold room

Comment on

(10x2=20)

11. Ultracentrifugation.
12. Beer Lamberts law
13. Types of gels used in electrophoresis
14. pH meter.
15. Walk in incubator
16. Demerits of ELISA test.
17. Dark field microscopy
18. RCF (Relative Centrifugal Force) and RPM in centrifuges
19. CO₂ incubators
20. Inspissator
