

QP Code: 213019

Reg. No.....

**Second Year B.Sc Medical Microbiology Degree Supplementary  
Examinations October 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 about the principle, working and applications of different types of ELISA.
2. Discuss in detail about the principle, methodology and applications of radio-isotopic techniques.

**Short Essays** (2x10=20)

3. Dark field microscope.
4. Column chromatography.

**Short Answers** (6x5=30)

5. Ultracentrifugation
6. Thin layer chromatography
7. Paper electrophoresis
8. Hot air oven
9. Immune-electrophoresis
10. Nephelometry

**Comment on** (10x2=20)

11. Cold room
12. Vaccine bath
13. Biological Safety cabinet.
14. Relative centrifugal force
15. Principle of pH meter
16. Isoelectric focussing.
17. Beer Lambert's law
18. Confocal microscope
19. Rf value
20. Units of radioactivity

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