

QP Code: 213019

Reg. No.....

**Second Year B.Sc Medical Microbiology Degree Regular/Supplementary  
Examinations March 2024**

**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. What is ELISA. Write in detail about principle, different types, procedure and applications of ELISA.
2. Classify microscopes. Discuss in detail about the principle, working and applications of phase contrast microscope.

**Short Essays**

**(2x10=20)**

3. Liquid chromatography
4. Spectrophotometry

**Short Answers**

**(6x5=30)**

5. Refrigerator
6. Biological safety cabinet
7. Working principle of Autoclave
8. PH meter
9. Mc Intosh fildes jar
10. Ultra centrifugation

**Comment on**

**(10x2=20)**

11. Magnification
12. Fluorescence
13. Embedding
14. Centrifugation
15. Shadow casting
16. Water bath
17. PAGE
18. Filters
19. Turbidimetry
20. Affinity

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