QP Code: 213019	Reg. No

## Second Year B.Sc Medical Microbiology Degree Supplementary Examinations October 2023

## 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 chromatography? Discuss the different types of chromatography and its main applications in diagnosis and industry.
- 2. Explain the principle of electrophoresis. Which are the factors effecting electrophoretic mobility. Add notes on PAGE.

Short Essays (2x10=20)

- 3. Explain the principle and working of electron microscope.
- 4. Describe atomic absorption spectrophotometer.

Short Answers (6x5=30)

- 5. HPLC.
- 6. Isoelectric focussing.
- 7. Anaerobic cultivation apparatus.
- 8. Radio immunoassay.
- 9. Autoclave.
- 10. HEPA filters.

Comment on (10x2=20)

- 11.pH meter.
- 12. ELISA.
- 13. Cold room.
- 14. Reverse phase chromatography.
- 15. Laminar flow.
- 16. Rocket electrophoresis.
- 17. Partition coefficient.
- 18. Dark ground microscopy.
- 19. Incinerators.
- 20. Ultracentrifugation.

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