QP Code: 213019 Reg. No......

Second Year B.Sc Medical Microbiology Degree Supplementary Examinations August 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 chromatography. Describe the principle and working of HPLC
- 2. What are biological safety cabinets. Describe the working and uses of a biological safety cabinet

Short Essays (2x10=20)

- 3. Explain the principle of DNA electrophoresis and its role in molecular biology
- 4. Describe the principle, technique and application of Radio Immuno Assay.

Short Answers (6x5=30)

- 5. Autoclave.
- 6. Anaerobic cultivation apparatus
- 7. PAGE
- 8. Density gradient centrifuge
- 9. Hot air oven
- 10.pH meter

Comment on (10x2=20)

- 11. Shadow casting
- 12. Sandwich ELISA
- 13. Beer-Lamberts law
- 14. Flame photometer
- 15. Western blotting
- 16. Subcellular fractionation
- 17. Tracking dye
- 18. Partition coefficient
- 19. HEPA filters
- 20. Turbidometry.
