QP Code: 203019 Reg. No......

Second Year B.Sc. Medical Microbiology Supplementary Examinations April 2017 METHODOLOGY AND INSTRUMENTATION

Time: 3 Hours Total Marks: 100

- Answer all the questions
- Draw diagrams wherever necessary

Essay (2x15=30)

- 1. What is enzyme linked immune-sorbent assay (ELISA). What is the principle and different types of ELISA. Name the enzyme labels and substrates used. Draw a diagram to show the steps. What are its applications.
- 2. List the different types of microscopes. Describe the function and uses of a light microscope

Short Essay (2x10=20)

- 3. What is chromatography. What is the principle, theory, classification and application of gas liquid chromatography.
- 4. universal safety precautions.

Short Notes (6x5=30)

- 5. Ultracentrifuge
- 6. Rabbit: handling and bleeding
- 7. Fluorescent microscopy
- 8. Colorimetry
- 9. Hand washing
- 10. Two dimensional electrophoresis

Answer Briefly (10x2=20)

- 11. Uses of mice
- 12. Cold room
- 13.Incubator.
- 14. Rocket electrophoresis
- 15. Specimen preparation in electron microscopy
- 16. Uses of rabbits
- 17.pH meter
- 18. Immunization of animals
- 19. Phase contrast microscopy
- 20. Hot air oven
