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First Year B.Sc Medical Microbiology & Medical Biochemistry Degree Regular/Supplementary Examinations December 2023

Paper IV - General Methodology

(2016 Scheme)

(Common for both specialty)

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 table/diagrams/flow charts wherever necessary

Essays: (2x15=30)

- 1. Describe the composition, properties and varieties of glass used in glassware in the labs. What are their advantages and disadvantages compared to plastic wares
- 2. Describe the principles of optical microscopy. List the parts of a compound microscope. What is digital microscopy

Short Essays: (2x10=20)

- 3. Discuss the methods of sterilization of needles, syringes and other glassware
- 4. Discuss the layout and design of a modern clinical laboratory

Short notes (6x5=30)

- Molal solutions
- 6. Vortex mixer
- 7. Errors in handling specimens
- 8. General principles of staining
- 9. Preservatives for urine and body fluids
- 10. Principles of quality control in different labs

Answer briefly: (10x2=20)

- 11. Cleaning of lab equipments
- 12. Storage of hazardous chemical in the lab
- 13. Classify microorganisms
- 14. Polarising microscopy
- 15. Blood collection from lab animals
- 16. First aid kit in lab
- 17. Types of coverslips used in lab
- 18. Floatation bath
- 19. Use of embedding station
- 20. Specimens processed in a cytology lab
