

**Q.P. CODE: 115019**

**Reg. No: .....**

**First Year B.Sc Medical Microbiology & Medical Biochemistry Degree  
Supplementary Examinations September 2022**

**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. Discuss the Principles, uses and care of an analytical balance in the lab. What are its accessories
2. Describe the preparation and staining of thin and thick peripheral smears

**Short Essays:**

**(2x10=20)**

3. Discuss the lab hazards and the use of first aid and first aid kit.
4. Outline the essential features of a modern clinical laboratory.

**Short notes**

**(6x5=30)**

5. Preparation of primary standard and 1 normal HCL.
6. Testing for deionised water
7. Safety codes of laboratory practices.
8. Anticoagulants for hematology
9. Immunisation of lab animal
10. Distillation apparatus

**Answer briefly:**

**(10x2=20)**

11. Uses of disposable glassware
12. What is a buffer. Give it's uses.
13. Storage of chemicals and reagents.
14. Explosive substances used in the histopathology
15. Types of fluid received in cytology
16. Specification of a microslide
17. Lab precautions in COVID 19 pandemic
18. Types of objectives in a compound microscope
19. Guinea pigs as lab animals
20. Blood collection bottles

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