

Q.P. CODE: 115019

Reg. No:

**First Year B.Sc Medical Microbiology & Medical Biochemistry Degree
Regular/Supplementary Examinations March 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. Discuss the basic metric units system of length, weight and volume. How do you figure out the weight of a liquid from its volume.
2. Describe the parts, principle, uses of a phase contrast microscope. How is it different from a dark field microscope.

Short Essays:

(2x10=20)

3. Discuss the causes for fire in a lab and the safety measures to prevent it.
4. Discuss the principles of bacterial growth, multiplication and their nutrition.

Short notes

(6x5=30)

5. Laboratory plastic wares.
6. Desiccator
7. Universal precaution
8. Autoclaving
9. Handling of laboratory animals
10. Staining methods for bacteria

Answer briefly:

(10x2=20)

11. Standardization of a 1 ml volumetric pipette
12. Composition of glass
13. Types of bottles used in the lab
14. Parts of a peripheral smear
15. Automated dispenser
16. Lancet
17. Nutrient agar
18. Anaerobic culture methods
19. Types of bacilli
20. Uses of a water bath
