

Q.P. CODE: 115019

Reg. No:

**First Year B.Sc Medical Microbiology & Medical Biochemistry Degree
Supplementary Examinations September 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 preparation of normal, molar and percentage solutions. How do you prepare standard solutions for acids and bases.
2. Describe the disinfectants used in the lab. How do they prevent infection especially COVID-19. What is decontamination.

Short Essays:

(2x10=20)

3. Principles and uses of centrifuge. Write the care and Maintenances.
4. Classify culture media and describe their preparation.

Short notes

(6x5=30)

5. Reagent grade water.
6. Types of flasks used in the lab.
7. Labelling of specimens.
8. Arterial blood collection.
9. EDTA-principle, preparation and uses.
10. Electron microscopy.

Answer briefly:

(10x2=20)

11. Uses of incubator.
12. Principle of hot air oven.
13. Normal saline.
14. Solutions for cleaning glassware.
15. Titrimetric analysis.
16. Breeding of lab animals.
17. Types of cocci.
18. Aerobic culture methods.
19. Corrosives used in lab and precaution.
20. Types of test tubes used in the lab.
