

**B.Sc. MEDICAL LABORATORY TECHNOLOGY
FIRST YEAR**

PAPER III – GENERAL METHODOLOGY

Q.P. Code: 725003

Time: Three Hours

Maximum : 100 Marks

Answer All questions

I. Elaborate on:

(3 x 10 = 30)

1. Explain the dry heat method of sterilization in detail.
2. Draw a labeled diagram of bacterial cell. Compare and contrast gram positive and gram negative cell wall.
3. Write the mechanism and the use of anticoagulants.

II. Write notes on:

(8 x 5 = 40)

1. Describe the routine maintenance of laboratory equipments.
2. Composition of blood.
3. Name the appendages used for motility and explain it.
4. What are the steps to follow to get good smear from the blood sample?
5. Define (i) Mean (ii) Mode (iii) Median (iv) SD (v) CV
6. Centrifuge.
7. Enrichment media.
8. Disposal of wastes.

III. Short answers on:

(10 x 3 = 30)

1. MacConkey media.
2. Name the type of glass bottles used to store light sensitive reagents.
Preparation of glassware cleaning solution.
3. Crystal violet stain.
4. HEPA filters.
5. Why the laboratory reports should be kept confidential?
6. Seitz filter.
7. Gram staining.
8. Bacterial spore.
9. Autoanalyser.
10. Radiation in sterilization.
