

**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. Compare gram positive and Gram negative bacterial cell wall.
2. Define sterilization and write briefly about moist heat sterilization.
3. Describe in detail about the method of collection, transportation and storage of clinical specimens for microbiological examination.

II. Write notes on:

(8 x 5 = 40)

1. Describe the sources of errors in pre analytical phase.
2. Describe the routine maintenance of laboratory equipments.
3. Define (i) Mean (ii) Mode (iii) Median (iv) SD (v) CV
4. Write in short about laboratory information system (LIS).
5. Describe the various statistical formulae used in laboratory data analysis.
6. Anticoagulants and its uses.
7. Define total count and differential count.
8. Explain Dry Heat Sterilization.

III. Short answers on:

(10 x 3 = 30)

1. How will you prepare a blood smear?
2. Enlist the causes of hemolysis samples.
3. Write down sources of post analytical errors.
4. Write down the proper order of drawing blood samples.
5. What are the requirements for sample collection for an HIV test?
6. Principle and methods of ensuring quality assurance in the laboratory.
7. EDTA.
8. Define fimbria and its uses.
9. Seitz filter.
10. Define Lyophilization.
