

[LH 0815]

AUGUST 2015

Sub.Code :5003

**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 Universal safety precaution. How will you organize and implement the same in your laboratory?
2. Draw a labeled diagram of bacterial cell. Compare and contrast Gram Positive and Gram Negative cell wall.
3. Explain Moist Heat Sterilization.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Gram Stain and its clinical application.
2. Hot Air Oven.
3. Basal Media and its uses.
4. Anticoagulant and its uses.
5. Define (i) Mean (ii) Mode (iii) Median (iv) SD (v) CV
6. Disposal of infective material.
7. Cleaning of glass wares.
8. Write about bacteria based on oxygen requirement.

**III. Short answers on:**

**(10 x 3 = 30)**

1. Define PPE.
2. Soft water.
3. Which method is the best method of sterilization? Why?
4. Crystal Violet Stain.
5. What is sterilization and disinfection?
6. How will you prepare the blood films?
7. HEPA.
8. Define Spores.
9. Differentiate between pili and fimbriae.
10. MacConkey media.

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