

**DIPLOMA IN MEDICAL LABORATORY TECHNOLOGY
FIRST YEAR**

**PAPER II – FUNDAMENTALS OF MEDICAL LABORATORY
TECHNOLOGY AND MICROBIOLOGY**

Q.P. Code: 842602

Time : Three Hours

Maximum : 100 Marks

Answer ALL questions.

I. Elaborate on:

(3 x 10 = 30)

1. Write in detail about the various types of microscopes used in laboratory and its principles and uses.
2. Describe the cultural characters, biochemical reaction, pathogenesis and laboratory diagnosis of vibrio.
3. Define sterilization. Describe in detail about the various sterilization techniques used in laboratory and its principle.

II. Write Notes on:

(10 x 5 = 50)

1. Collection and preservation of biological fluids.
2. Types of Media used in bacteriology.
3. Test for motility in bacteria.
4. Hypersensitivity.
5. Functions of complement.
6. Tissue culture.
7. Dimorphic fungi.
8. Monoclonal Antibody.
9. Diagnosis of fungal infection.
10. Bacterial growth curve.

III. Short Answers on:

(10 x 2 = 20)

1. HIV.
2. Name two diseases caused by spirocheate.
3. Name two disinfectant.
4. Antigen.
5. Name the plasmodium species.
6. Centrifuge.
7. Blood agar.
8. Innate immunity.
9. CRP.
10. Gram Positive Cell Wall.
