

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 hypersensitivity and its characteristics.
2. Describe the life cycle, pathogenesis and laboratory diagnosis of *Plasmodium spp.*
3. Describe in detail about the collection and preservation of biological fluids.

II. Write Notes on:**(10 x 5 = 50)**

1. Write short notes on quality control in modern laboratories.
2. Write about clinical laboratory records.
3. Write short notes on McIntosh Fildes Jar.
4. Write notes on Handerson-Hasselbach equation.
5. Discuss about resolution and magnification of light and electron microscopy.
6. Write details about Processing of clinical samples for microbiological investigations.
7. Write the characteristics and pathogenesis of *Corynebacterium diphtheria*.
8. Write notes on dengue virus.
9. Write on *Trichinella* infection.
10. Write on Monoclonal antibodies.

III. Short Answers on:**(10 x 2 = 20)**

1. What is CPE?
2. What is antibiotic sensitivity test?
3. Write on the catalase test.
4. What is a reference value?
5. Name two Non motile Bacilli.
6. How do you prepare normal saline?
7. What is the preservative used to preserve urine?
8. Write about PPE.
9. What is significance of laboratory hygiene?
10. Write on relative centrifugal force.
