

**DIPLOMA IN MEDICAL LABORATORY TECHNOLOGY**  
**SECOND YEAR**  
**PAPER I – CLINICAL BIOCHEMISTRY, PATHOLOGY AND**  
**HISTOPATHOLOGY**

*Q.P. Code: 842611*

**Time: Three Hours**

**Maximum : 100 Marks**

**Answer All questions**

**I. Elaborate on:**

**(3 x 10 = 30)**

1. Write a detailed note on liver function tests and the enzyme markers involved in LFT.
2. Discuss in detail about the metabolic disorders of carbohydrates.
3. Write a detailed note on Mechanism of antibiotic resistance and add a note on multiple drug resistance.

**II. Write notes on:**

**(10 x 5 = 50)**

1. FNAC.
2. Preparation of Mounting medium.
3. Tests for Protein in urine.
4. Microscopic examination of Stool.
5. Mode of Action of Antibiotics.
6. Estimation of Serum HDL Cholesterol.
7. Preparation of fluids for cytological examination.
8. Principle and uses of PAS Staining.
9. Hematuria.
10. Casts in Urine.

**III. Short answers on:**

**(10 x 2 = 20)**

1. Total Lymphocyte Count (TLC).
2. Aphthous Stomatitis (AST).
3. Beer's law.
4. Normal range of (i) Blood Sugar (ii) Blood urea
5. Nieman Pick disease.
6. Care of microtome knives.
7. Cryostat.
8. Use of Xylene in tissue processing.
9. Heller's test.
10. Bromocresol blue method.

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