

**THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY**

**[AHS 0922]**

**SEPTEMBER 2022**

**Sub. Code: 2611**

**(FEBRUARY 2022 & AUGUST 2022 EXAM SESSIONS)**

**DIPLOMA IN MEDICAL LABORATORY TECHNOLOGY  
SECOND YEAR (Regulations from 2014-2015 & 2018-2019)  
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. Discuss about automated tissue processing technique.
2. Write in detail about thyroid function tests.
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. Muscle biopsy technique.
2. Beer's Law and Lambert's Law.
3. Liver Function Tests.
4. Investigations for Diabetes Mellitus.
5. Mounting of specimens.
6. Biomedical waste management.
7. Parts and functions of microtome.
8. Microscopic examination of stool.
9. 24 Hour Urine collection with Urinary Preservatives.
10. Process of Blood coagulation.

**III. Short answers on:**

**(10 x 2 = 20)**

1. Applications of enzymes.
2. Principle and uses of PAS staining.
3. Incineration.
4. Glucose and total proteins level in CSF.
5. Total leucocyte count.
6. Test for Myocardial Infarction.
7. Mention the tests to detect bile salts and bile pigments.
8. Microalbuminuria.
9. Leishman stain.
10. Causes for eosinophilia.

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