

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

[AHS 1123]

NOVEMBER 2023

Sub. Code: 2611

**DIPLOMA IN MEDICAL LABORATORY TECHNOLOGY
SECOND YEAR (Regulations 2014-2015 & 2018-2019 onwards)
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. Describe in detail about Glucose Tolerance Test and write the normal values of Fasting Blood Sugar, Post Prandial Blood Sugar and HbA1C.
2. Explain in detail about Urine Analysis.
3. Write in detail about various steps involved in Tissue Processing.

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

1. Tests for Myocardial Infarction.
2. Role of Fine Needle Aspiration Cytology.
3. Equipments used in Histopathology, its uses and maintenances.
4. Chromatography.
5. Decalcification.
6. Liver Function Test.
7. Mounting fluid used in specimen mounting with its composition and its uses.
8. Crystals in Urine.
9. H and E staining.
10. Sputum examination.

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

1. PAS stain.
2. Gout.
3. Alkaptonuria.
4. Microtome.
5. Principle of Estimation of Cholesterol.
6. Role of Frozen section.
7. DPX.
8. Normal range of (a) Sodium (b) Potassium.
9. Causes of Polyuria.
10. Tay-Sachs disease.
