

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

**[AHS 0423]**

**APRIL 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. Write in detail about Thyroid Function Tests.
2. Discuss in detail the Physical and Chemical Examination of Urine.
3. Write about specimen collection, fixation methods and staining procedures in Fine Needle Aspiration Cytology.

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

1. Specimen Collection-Blood.
2. Freezing Microtome-Fixation and uses.
3. Principle and parts of Colorimeter.
4. Centrifuge.
5. RBC indices.
6. Serum electrolytes.
7. Biochemical tests for Jaundice.
8. Honing and Stropping.
9. Semen analysis.
10. Pancreatic Function Test.

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

1. Tissue embedding.
2. Creatinine clearance.
3. Normal range of fasting and postprandial plasma glucose.
4. Name four Urine preservatives.
5. Crystals in Urine.
6. Name the Ketone bodies.
7. Heparin.
8. What is Hematuria? Any two conditions causing Hematuria.
9. Pap stain.
10. Test for Myocardial Infarction.

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