

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

[AHS 0423]

APRIL 2023

Sub. Code: 5018

**B.Sc. MEDICAL LABORATORY TECHNOLOGY
SECOND YEAR (Regulations 2010-2011 & 2018-2019 onwards)
PAPER III – CLINICAL PATHOLOGY AND BASIC HEMATOLOGY
Q.P. Code: 725018**

Time: Three hours

Answer ALL Questions

Maximum: 100 Marks

I. Elaborate on:

(3 x 10 = 30)

1. Define Anemia. Write the classification of Anemias and an approach to Diagnosis of Anemia with emphasis on the Diagnostic Tests.
2. Write in detail about the Methods of Collection of Urine and the Urine preservatives. Include a note about the Microscopic Examination of Urine.
3. Semen Analysis.

II. Write notes on:

(8 x 5 = 40)

1. Methods of Hemoglobin Estimation.
2. Thrombocytopenia.
3. Prothrombin time.
4. Anticoagulants and its applications.
5. Hemoparasites.
6. Packed Cell Volume.
7. Tests for Ketone bodies in Urine.
8. Osmotic Fragility Test.

III. Short answers on:

(10 x 3 = 30)

1. Leishman Stain.
2. Basophilic Stippling.
3. Thick Smear.
4. Schilling's Test.
5. Benedict's Test.
6. Vacutainers used in Clinical Pathology Lab.
7. Blood picture in Chronic Lymphoid Leukemia.
8. Causes of Neutrophilia.
9. Myeloid:Erythroid ration (M:E ratio).
10. Neubauer Chamber.
