

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

[DM 0822]

AUGUST 2022

Sub. Code :1402

D.M. – CLINICAL HAEMATOLOGY

Paper II – LABORATORY HAEMATOLOGY

Q.P. Code: 161402

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on: **(2 x 15 = 30)**

1. Discuss the laboratory diagnosis of the acute lymphoblastic leukemias and its relevance to therapy and prognostication.
2. Discuss the laboratory approach to the diagnosis of hereditary bleeding disorders and their limitations.

II. Write notes on: **(10 x 7 = 70)**

1. Prothrombin time and International Normalized Ratio (INR).
2. Measurement of reticulocytes.
3. Evaluation of lupus anticoagulant.
4. Assessment of osmotic fragility and its significance.
5. Diagnosis of paroxysmal nocturnal haemoglobinuria.
6. Assessment of minimal residual diseases in acute myeloid leukemia.
7. Quality control blood group assessment.
8. Direct Coombs Test.
9. Diagnostic criteria for myelodysplastic syndromes.
10. External quality assessment in laboratory haematology.
