

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

[AHS 0222]

**FEBRUARY 2022
(OCTOBER 2021 EXAM SESSION)**

Sub. Code: 1253

**M.Sc. MEDICAL LABORATORY TECHNOLOGY
FIRST YEAR**

(Candidates admitted from 2011-2012 & 2013-2014 onwards - Paper III)

(Candidates admitted from 2020-2021 onwards - Paper IV)

PAPER III & IV – HAEMATOLOGY AND CLINICAL PATHOLOGY

Q.P. Code : 281253

Time: Three hours

Answer ALL Questions

Maximum: 100 Marks

I. Elaborate on:

(2 x 20 = 40)

1. Write a note on importance of bone marrow aspiration smear in haematological diagnosis and mention how it helps in anaemia, pancytopenia and leukaemia and mention few contradictions in bone marrow.
2. Classify Hypochromic microcytic anaemia with lab investigations. Explain the causes of macrocytic anaemia and their lab investigations.

II. Write notes on:

(10 x 6 = 60)

1. Describe the smear findings in pancytopenia and how will you investigate.
2. Describe the smear findings in Chronic myeloid leukaemia and how will you differentiate from leukemoid reaction.
3. How will you differentiate between hemoglobinuria and haematuria?
4. Write a note on lab investigations of Spherocytosis.
5. Classify Acute lymphoblastic leukemia and mention the criteria in bone marrow for diagnosis
6. What are the causes for isolated prolonged Prothrombin time and write about the INR.
7. Cerebrospinal fluid- Write the physical and chemical examination and few disease conditions in which it helps in diagnosis.
8. Describe lab and smear findings in Disseminated Intravascular Coagulation and mention few causes.
9. Mention the causes and lab investigations for a person having Black colour urine.
10. Write the applications of Flowcytometry.
