

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

[AHS 0921]

**SEPTEMBER 2021  
(MAY 2021 EXAM SESSION)**

**Sub. Code: 1253**

**M.Sc. MEDICAL LABORATORY TECHNOLOGY  
FIRST YEAR (2011-2012 Regulation - From 2013-2014 onwards)  
PAPER III – 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. Classify and write about the Lab investigations of haemolytic anaemia.
2. Classify platelet disorders. Mention the Qualitative and quantitative disorders of platelets in detail.

**II. Write notes on:**

**(10 x 6 = 60)**

1. Write a note Polymerase chain reaction and their applications.
2. Write about the physical examination of urine sample.
3. Classify Alpha thalassemia and mention the smear and lab investigations in diagnosis.
4. Describe the smear findings in megaloblastic anaemia and mention the causes.
5. Explain about the Estimation of reducing sugars in urine.
6. Write a note on chronic lymphocytic leukemia.
7. Write the importance of Perl's stain in bone marrow studies.
8. Mention the smear findings in liver disease and mention the biochemical lab investigations and mention 3 causes for liver disease.
9. Write a note on anticoagulants.
10. Write the causes for isolated prolonged Activated Partial Thromboplastin Time and mention the usefulness of mixing test.

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