

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

[LR 1220]

**DECEMBER 2020  
(AUGUST 2020 EXAM SESSION)**

**Sub. Code: 2612**

**DIPLOMA IN MEDICAL LABORATORY TECHNOLOGY  
SECOND YEAR – (Regulation from 2014 -2015 & 2018-2019)**

**PAPER II – HEMATOLOGY AND BLOOD BANK TECHNOLOGY  
Q.P. Code: 842612**

**Time: Three Hours**

**Maximum : 100 Marks**

**Answer All questions**

**I. Elaborate on: (3 x 10 = 30)**

1. Blood Transfusion Reactions Investigation of a Transfusion Reaction.
2. Anticoagulant preservative solutions used in the Blood Bank.
3. Describe the various methods of Blood Collection. Add a note on Anticoagulants used in Haematology Laboratory.

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

1. The advantages & disadvantages of thin blood smear and thick blood smear.
2. Classify Leukemias. Describe in detail the laboratory diagnosis of Acute Leukaemias.
3. What is Prothrombin time and how to calculate International Normalized Ratio?
4. Explain in detail about lab findings of Hemolytic Anemia.
5. Explain in brief the principle and procedure of Cyanmethaemoglobin method.
6. Laboratory tests performed on Donor blood to detect HIV.
7. Quality Assurance in Blood Banking.
8. Discuss Organisation of Blood Donation camps.
9. Discuss Clinical significance of other Red Cell Antigens.
10. Discuss about Factors influencing Antigen-Antibody reaction.

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

1. First aid in Lab.
2. Laboratory-acquired infection.
3. Preparation of Red Cell Suspension.
4. Significance of Reticulocyte Count.
5. Disseminated Intravascular Coagulation.
6. Bombay Blood Group.
7. Quality Control of ABO Reagent.
8. Massive Transfusion.
9. Application of Antiglobulin test.
10. Automation in Immunohematology.

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