

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

[AHS 0922]

SEPTEMBER 2022

Sub. Code: 2612

(FEBRUARY 2022 & AUGUST 2022 EXAM SESSIONS)

**DIPLOMA IN MEDICAL LABORATORY TECHNOLOGY
SECOND YEAR – (Regulations from 2014 -2015 & 2018-2019)
PAPER II – HEMATOLOGY AND BLOOD BANK TECHNOLOGY**

Q.P. Code: 842612

Time: Three hours

Answer ALL Questions

Maximum: 100 Marks

I. Elaborate on:

(3 x 10 = 30)

1. List the anticoagulants used for preservation of blood and blood components and its composition with the storage period for each.
2. Elaborate on Fibrinolysis.
3. Definition, causes, classification and lab findings of Auto Immune Hemolytic Anemia.

II. Write notes on:

(10 x 5 = 50)

1. Differentiation of Blast cells.
2. Characteristics of a Proper Wedge Film.
3. Rh blood group Antigens.
4. Idiopathic Thrombocytopenic Purpura (ITP).
5. Heparin.
6. Troubleshooting during staining.
7. Erythrocyte Indices.
8. Structure and Organization of Laboratory Facilities in Hospital.
9. Antibodies - Structure and function.
10. A and B Cells preparation.

III. Short answers on:

(10 x 2 = 20)

1. Clotting Time.
2. Name any two cleansing agents used during the Venipuncture site.
3. Tourniquet application.
4. Define Autologous Blood Transfusion.
5. Anti –A anti sera.
6. Refrigerated centrifuge.
7. Define Acute Hemolytic Transfusion Reaction (AHTR).
8. Blood Smear- Cover slip method.
9. Romanowsky stains.
10. Erythrocyte Sedimentation Rate [E.S.R.].
