

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

[AHS 0423]

APRIL 2023

Sub. Code: 5031

**B.Sc. MEDICAL LABORATORY TECHNOLOGY
THIRD YEAR (Regulations 2010-2011 & 2018-2019 onwards)
PAPER I – COAGULATION AND TRANSFUSION MEDICINE
Q.P. Code: 725031**

Time: Three Hours

Answer ALL Questions

Maximum: 100 Marks

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

1. Discuss in detail about the laboratory diagnosis of bleeding disorders.
2. Describe the Principle, method and Significance of Coombs test.
3. Explain in detail about the Transfusion Transmitted diseases and their lab diagnosis.

II. Write notes on: (8 x 5 = 40)

1. Quality Assurance in Blood banking.
2. Cryoprecipitate.
3. Donor Selection criteria.
4. Coagulation Pathway.
5. Cross matching.
6. Methods of blood grouping.
7. Autologous transfusion.
8. Von Willebrand disease.

III. Short answers on: (10 x 3 = 30)

1. Composition of CPDA.
2. Enlist four blood group systems.
3. Bombay Blood Group.
4. Idiopathic Thrombocytopenic Purpura.
5. Vitamin K dependent clotting factors.
6. Give three conditions for permanent deferral of blood donor.
7. Window period.
8. What is the temperature at which platelets are stored? Give two indications for Platelet transfusion?
9. H antigen.
10. Enumerate three Natural inhibitors of coagulation.
