

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

[MD 0723]

**JULY 2023  
(MAY 2023 EXAM SESSION)**

**Sub. Code: 3013**

**M.D. DEGREE EXAMINATION**

**BRANCH XXI – IMMUNOHAEMATOLOGY AND BLOOD TRANSFUSION  
PAPER III – BLOOD DONOR ORGANISATION TECHNOLOGY OF  
COMPONENTS AND CLINICAL HAEMOTHERAPY**

*Q.P. Code: 203013*

**Time: Three Hours**

**Maximum: 100 Marks**

**I. Essay Questions:**

**(2 x 15 = 30)**

1. Discuss about the differential diagnosis and management of Gestational Thrombocytopenia.
2. What are the differences between Regulatory Accreditation and Certifying bodies? Write a note on NABH standards for Blood Bank Accreditation.

**II. Short notes:**

**(10 x 7 = 70)**

1. Transfusion management in “Major ABO Mismatch Allogenic Bone Marrow Transplantation” recipients.
2. Therapeutic Plasma Exchange in neurological disorders.
3. Advantages and disadvantages of Type and Screening versus Type and Crossmatch.
4. a) In Thalassemia patients on regular transfusion and chelation, what will be the ideal range of iron concentration (mg Fe/g dry weight) suggested to minimize iron deposition in non-storage parenchymal sites and significant toxicity?  
b) Briefly discuss about non-invasive method to assess iron overload.  
c) Explain various steps to minimize such deposition.
5. National Blood Policy and its impact on the practice of Transfusion Services of Our Country.
6. a) Define Near Miss Events.  
b) Strategies to prevent near miss events in Transfusion Medicine.
7. Biomedical waste management in blood centres.
8. Autologous preparation of Platelet rich plasma and its applications.
9. Hospital Transfusion Committee and its role in promotion of judicious use of blood.
10. a) What are the requirements of an outdoor blood donation camp?  
b) Discuss the various preparations for an outdoor camp.