

QP Code:103108

Reg. No.:.....

**PG Degree Regular/Supplementary Examinations in Immuno
Haematology and Blood Transfusion Medicine (MD) January 2025
Paper III - Blood Donor Organization, Technology of Components, Clinical
Hemotherapy**

Time: 3 hrs

Max marks:100

- *Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space*
- *Answer all parts of a single question together • Leave sufficient space between answers*
- *Draw table/diagrams/flow charts wherever necessary*

Essay: (20)

1. Discuss the aetiopathogenesis, Lab diagnosis and management of warm autoimmune hemolytic anemia. Add a note on challenges in blood transfusion for these patients.

Short essays: (8x10=80)

2. Indications, collection, storage, pretransfusion work up done for granulocyte transfusions
3. Discuss pre- operative autologous blood donation.
4. Protocols and challenges of blood transfusion in the management of patients with thalassemia major
5. Discuss the types of delayed adverse transfusion reactions.
6. Anticoagulants and Preservatives used for collection and storage of Blood components.
7. A 30-year-old male, wants to donate Apheresis (Single donor) Platelet unit. Explain in detail Donor selection, Procedure and potential adverse donor reactions in this setting.
8. What is Leucodepletion. List the indications and methods of Leucodepletion of blood components.
9. What is cross-match to transfusion ratio (CTR). Discuss the ideal CTR and steps taken to ensure appropriate blood order and utilization.
