

QP Code:104108

Reg. No.:.....

**PG Degree Regular/Supplementary Examinations in Immuno
Haematology and Blood Transfusion Medicine (MD) January 2025**

Paper IV - Recent Advances & Technology

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 various Cryopreservation techniques. Add a note on the Cryopreservation of Hematopoietic Stem Cells

Short essays: (8x10=80)

2. Discuss the types and mechanism of action of red cell substitutes. Add a note on limitations in clinical utility
3. Recent advances in the management of Hemophilia A
4. Principle and Clinical utility of CAR T cell therapy
5. What is proteomics technology. Discuss its applications in transfusion medicine
6. Pathogen reduction technology for blood. components
7. What are topical hemostatic agents. Discuss its clinical applications with examples
8. Blood inventory management. Add a note on use of software in Inventory management
9. List the various transfusion transmitted infections. Add a note on principle, methods and advantages of NAT testing.
