

QP Code:104108

Reg. No.:.....

**PG Degree Supplementary Examinations in Immuno Haematology and Blood Transfusion Medicine (MD) July 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. Describe the process of umbilical cord blood banking and transplantation.

**Short essays:**

**(8x10=80)**

2. Gene therapy – advances in transfusion medicine.

3. Molecular approaches to blood group identification.

4. Applications of proteomics in transfusion medicine.

5. NK cell therapy in cancer and transplantation.

6. Discuss various “point of care tests” to reduce transfusion requirements in elective surgery.

7. Recombinant proteins.

8. Tissue banking.

9. Application of flow cytometry in transfusion medicine.

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