

QP Code:103108

Reg. No.:.....

**PG Degree Supplementary Examinations in Transfusion Medicine
(MD) January 2024**

**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. List the various types of apheresis. Discuss indications and protocol of therapeutic plasma exchange

Short essays:

(8x10=80)

2. Describe in detail the recommended quality control standards for various blood components followed in India
3. What are Platelet Additive Solutions (PAS). List the composition, types of PAS and discuss the advantages of PAS in Platelet transfusions
4. What are the types of blood donors. Discuss the strategies for blood donor motivation.
5. Discuss the types of Non immunologic adverse transfusion reactions.
6. What is Massive Transfusion Protocol (MTP) and when is it triggered. Explain the methodology of release of components in MTP and monitoring of the patient with a flow chart.
7. Discuss the method of collection, processing and storage of stem cells obtained from cord blood.
8. Discuss the transfusion trigger, choice of blood components used and methodology of Exchange transfusion due to hemolytic disease of new born.
9. Explain the methodology for irradiation of Blood components. Add a note on its indications and advantages. List the effects of irradiation on red cell units.
