

**QP Code: 101108**

**Reg. No.:.....**

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

**Paper I – Applied Aspects of Basic Sciences in Relation to Transfusion Medicine**

**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. Structure of red cell membrane. Write a note on red cell storage lesions.

**Short essays:**

**(8x10=80)**

2. Biology of HLA (Human Leucocyte Antigen) system.
3. Describe pathophysiology of Transfusion Associated Circulatory Overload.
4. Complement mediated hemolysis.
5. Erythropoietin.
6. Micro lymphocyte toxicity test and its application in Transfusion Medicine
7. Structure and function of IgA (Immunoglobulin A)
8. Hardy Weinberg principle and its application in blood banking.
9. Fibrinolytic pathway

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