

**QP Code: 101108**

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

**PG Degree Regular/Supplementary Examinations in Transfusion  
Medicine (MD) May 2022**

**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. Briefly describe the structure of platelets. Write a note on glycoprotein receptors on platelets and its implication in clinical transfusion practice.

**Short essays:**

**(8x10=80)**

2. Hemodynamics of blood flow and shock
3. Pathophysiology of Rh-D alloimmunisation
4. Hardy – Weinberg Principle.
5. Iron metabolism
6. Pathophysiology of non-immune hemolytic transfusion reactions.
7. Current standards of practice in bio-waste management in blood banks.
8. Crystalloids and colloid solutions used in clinical practice.
9. Biology of T lymphocytes and its role in adoptive immunotherapy.

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