

QP Code: 101108

Reg. No.:.....

**PG Degree Supplementary Examinations in Transfusion Medicine (MD)**  
**November 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. Describe the coagulation cascade. Discuss the importance of transfusion medicine in treatment of haemophilia.

**Short essays:**

**(8x10=80)**

2. Type II antigen-antibody hypersensitivity reactions and its relevance in transfusion medicine.
3. Antiglobulin test.
4. Complement and its importance in blood transfusion reaction.
5. Physiology of haemoglobin formation and its applied aspects.
6. Pathogenesis of shock.
7. Proteomics.
8. Replication of HIV and its transmission
9. Structure and function of IgM (Immunoglobulin-M)

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