

**QP Code: 101108**

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

**PG Degree Supplementary Examinations in Transfusion Medicine (MD)  
November 2021**

**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 structure of the red cell membrane and discuss the physiological role of various blood group system antigens on the red cell membrane.

**Short essays:**

**(8x10=80)**

2. Dendritic cells and their applications
3. Disseminated intravascular coagulation
4. Structure and function of immunoglobulins
5. Transfusion related immunomodulation
6. Cytomegalovirus infection
7. Serum ferritin in health and disease
8. Cellular model of coagulation
9. Pathophysiology of intra vascular haemolysis

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