

QP Code: 101108

Reg. No.:.....

**PG Degree Supplementary Examinations in Transfusion Medicine (MD) -
November 2017**

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

Time: 3 hrs

Max marks:100

- *Answer all questions*
- *Draw diagrams wherever necessary*

Essays:

(20)

1. Define and classify cytokines. Discuss their roles in various areas of transfusion medicine.

Short essays:

(8x10=80)

2. Draw coagulation cascade and discuss cellular model of coagulation
3. Membrane attack complex (MAC) in complement activation
4. Type I hypersensitivity reaction and its applied aspects in transfusion medicine
5. Glycoprotein receptors of platelets and its applied aspects
6. Methods of estimation of blood volume and its applied aspects in clinical hemotherapy
7. Describe the biochemical properties of ABO antigens
8. Discuss various preservatives for red blood cell storage
9. Haemoglobin electrophoresis
