

**QP Code:101108**

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

**PG Degree Examinations in Transfusion Medicine (MD) - May 2014**

**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. Describe the synthesis, structure and biochemical properties of ABO blood group antigens. Discuss the various sub groups of ABO and its applied aspects in transfusion medicine.

**Short essays:**

**(10x8=80)**

2. Structure and function of haemoglobin.
3. Fibrinolytic pathway.
4. Role of HLA system in transfusion and transplantation.
5. Discuss the red cell storage lesion and their clinical significance.
6. Lectins.
7. Serological markers of hepatitis-B infection and add a note on occult hepatitis-B Infection.
8. Role of cytokines in transfusion medicine.
9. Discuss current standards of practice in bio-waste management in blood banks.

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