

QP Code:101108

Reg.No.:.....

**PG Degree Supplementary Examinations in Transfusion Medicine (MD) -
November 2015**

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 structure of the red blood cell membrane. Discuss in detail red blood cell metabolism and preservation

Short essays:

(8x10=80)

2. Enumerate the typical normal values in tests of hemostasis and coagulation
3. Biology of human progenitor cell mobilization
4. Oxygen-dissociation curve
5. Nomenclature and history of the rhesus blood group system
6. Hardy- Weinberg principle
7. Meiosis
8. Anticoagulant preservative solutions
9. Biology of the A and B antigens
