

QP Code:104108

Reg.No.:.....

**PG Degree Supplementary Examinations in Transfusion Medicine (MD)  
- November 2013**

**Paper IV - Recent Advances & Technology**

**Time: 3 hrs**

**Max marks:100**

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

**Essays:**

**(20)**

1. Discuss the role of molecular biology in transfusion medicine

**Short essays:**

**(8x10=80)**

2. Relationship testing as applied to transfusion medicine
3. Blood bank software applications
4. Use of flow cytometry in transfusion medicine
5. Evaluation and quality control of haematopoietic products
6. Radio frequency identification device in transfusion medicine
7. Extra corporeal membrane oxygenation
8. Novel umbilical cord blood derived cellular therapies
9. Autologous tissue collection, packaging, storage and release procedure

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