

**QP Code:104108**

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

**PG Degree Supplementary Examinations in Transfusion Medicine (MD)  
October 2019**

**Paper IV - Recent Advances & Technology**

**Time: 3 hrs**

**Max marks:100**

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

**Essay:**

**(20)**

1. Discuss the role of transfusion medicine consultant in ensuring appropriate clinical use of blood and components.

**Short essays:**

**(8x10=80)**

2. Mesenchymal stem cells
3. Role of transfusion medicine in ABO mismatched renal transplantation
4. Platelet substitutes
5. Photopheresis
6. Critically analyse various measures that can be taken to reduce bacterial contamination of blood components in India.
7. What are the steps taken at the blood bank and in the ward to provide a safe unit of red cells to a patient.
8. Applications of flow cytometry in transfusion medicine
9. Application of "LEAN" concept in transfusion medicine

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