

**VINAYAKA MISSION'S RESEARCH FOUNDATION  
(DEEMED TO BE UNIVERSITY), SALEM**

**M.D. DEGREE EXAMINATION – July 2021**

**IMMUNO HEMATOLOGY AND BLOOD TRANSFUSION**

**PAPER II : PAPER III: RECENT ADVANCES IN TECHNOLOGY**

Time: Three hours

Total Marks : 100

**Answer ALL questions**

**SECTION - A**

**Write essay on :** (1 x 20= 20)

1. Advances in immunohematological testing methods and their advantages.

**Write short notes on :** (5 x 6 =30 )

2. Leucoreduction filters.
3. RFID technology in blood banking.
4. Molecular testing in blood grouping.
5. Recent advances in component preparation.
6. Advances in blood safety.

**SECTION - B**

**Write essay on :** (1 x 20= 20)

7. Apheresis technology and its clinical applications.

**Write short notes on :** (5 x 6 = 30)

8. Innovations in blood bags.
9. Strategies to prevent bacterial contamination of blood components.
10. Flow cytometry applications in transfusion medicine.
11. Advantages of chemiluminescence Vs ELISA in TTI testing.
12. Red cell substitutes.

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