Contents

SECTION 1

Basics

1. Elementary Immunohematology *3*
2. HLA System *12*
3. Blood Groups *16*
4. Blood Bank—Its Planning and Organization *30*

SECTION 2

Blood Donation and Transfusion

5. Blood Bank, Donation and Preparation of Blood *37*
6. Exchange and Other Transfusion Considerations *56*
7. Preservation and Storage of Blood *63*
8. Compatibility Establishing Techniques *67*
9. Blood Transfusion Reactions *76*

SECTION 3

Clinical Aspects

10. Preparation of Blood Components *89*
11. Blood Components Transfusion Therapy *101*
12. Clinical Aspects of Blood Transfusion *115*

SECTION 4

Blood Bank Laboratory and Techniques

13. Collection of Blood Samples and Basic Reagents Used *123*
14. Standard Methods Used in Blood Transfusion Centres *126*
15. Equipments *143*

SECTION 5

Future Prospects of Blood Transfusion

16. **Safety, Quality and Record Keeping in Blood Bank** *153*
17. **Blood Transfusion Services in India** *156*
18. **Future of Blood Transfusion** *159*

SECTION 6

Appendices

1. **Withdrawal of Blood for Transfusion** *167*
2. **Differential Agglutination of Hemolysis** *168*
3. **Rapid Destruction of Transfused Red Cells** *170*
4. **Illustration to Explain Mendelian Inheritance** *171*
5. **Plasmapheresis** *172*
6. **Preparation of Laukocyte Poor Red Cells** *173*

Glossary *175*

Index *197*