

IMMUNO HEMATOLOGY & BLOOD TRANSFUSION
PAPER-I

IHBT/J/18/15/I

Time: 3 hours
Max. Marks:100

IMPORTANT INSTRUCTIONS

- Attempt all questions in order.
- Each question carries 10 marks.
- Read the question carefully and answer to the point neatly and legibly.
- Do not leave any blank pages between two answers.
- Indicate the question number correctly for the answer in the margin space
- Answer all the parts of a single question together.
- Start the answer to a question on a fresh page or leave adequate space between two answers.
- Draw table/diagrams/flowcharts wherever appropriate.

Write short notes on:

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|-----|---|-----|
| 1. | a) Human Leucocyte Antigen System.
b) Its role in TRALI. | 5+5 |
| 2. | a) Draw and describe Coagulation Cascade.
b) Laboratory approach to a bleeding patient. | 5+5 |
| 3. | a) Draw and describe the platelet structure.
b) Role of platelets in haemostasis. | 5+5 |
| 4. | a) Iron metabolism.
b) Laboratory diagnosis of iron deficiency in blood donors to diagnose/prevent Iron Deficiency Anemia. | 5+5 |
| 5. | a) Hardy Weinberg Principle.
b) Its application in blood banking. | 5+5 |
| 6. | a) Complement system.
b) Describe the processes involving Complement System in Transfusion Medicine. | 5+5 |
| 7. | Biomedical waste management in blood banks. | 10 |
| 8. | a) Red blood cell storage lesions
b) Their clinical consequences and prevention. | 5+5 |
| 9. | a) Classify Cytokines and describe their functions.
b) Describe their role in Transfusion Medicine. | 5+5 |
| 10. | Antigens of P blood group system and its clinical significance. | 10 |
