

IMMUNO HEMATOLOGY & BLOOD TRANSFUSION
PAPER-IV

IHBT/J/18/15/IV

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) Various methods for bacterial detection and pathogen inactivation in blood components. | 5+5 |
| | b) Various technologies under development to lengthen the storage life in platelet concentrates. | |
| 2. | a) What is Microarray Technology? | 5+5 |
| | b) Discuss its application in Transfusion Medicine. | |
| 3. | Discuss Blood Bank Information Systems. | 10 |
| 4. | How will you establish Patient Blood Management Programme at your Centre? | 10 |
| 5. | a) What is Hospital Transfusion Committee? | 5+5 |
| | b) Its role in promotion of judicious use of blood. | |
| 6. | a) What are Recombinant Monoclonal Antibodies? | 5+5 |
| | b) Its uses in current Transfusion Medicine Practice. | |
| 7. | Role of Transfusion Medicine in Regenerative Medicine. | 10 |
| 8. | a) National Blood Policy. | 5+5 |
| | b) Briefly mention its impact on the practice of Transfusion services of our country. | |
| 9. | a) Standard accreditation requirements for blood banks in India. | 5+5 |
| | b) Quality control parameters for blood and component products required for accreditation as per NABH standards. | |
| 10. | a) Principles of Polymerase Chain Reaction (PCR). | 5+5 |
| | b) Applications of PCR in Transfusion Medicine. | |
