

IMMUNOHAEMATOLOGY & BLOOD TRANSFUSION

PAPER-IV

Time: 3 hours
Max. Marks:100

IMHT/J/19/15/IV

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:

1. How would you plan to set up transfusion services in a 500 bedded tertiary care hospital as per the current regulatory requirements in our country? 10
2. a) Principle of Flow cytometry. 5+5
b) Discuss its uses in Transfusion medicine practice.
3. a) Hospital Transfusion Committee [HTC]. 5+5
b) Role of HTC in improving transfusion services.
4. National Blood policy and its objectives. 10
5. a) Standard Operative Procedure [SOP]. 5+5
b) Document development & control in blood banking.
6. a) Briefly describe various methods of leukoreduction and their advantages. 5+5
b) How would you do the quality control of leukoreduced blood components?
7. a) Discuss requirements of an outdoor voluntary blood donation camp (VBD). 5+5
b) How would you plan an outdoor VBD camp of 200 voluntary donors?
8. a) Discuss the role of automation in transfusion medicine. 5+5
b) Enumerate various available technologies applicable at various steps in the transfusion chain.
9. a) Define regenerative medicine. 5+5
b) Role of transfusion medicine specialist in cellular and biomaterial therapies.
10. a) Define Installation Qualification(IQ), Operational Qualification(OQ) & Performance Qualification(PQ) of Blood Bank Equipment. 5+5
b) Discuss their role in Quality Management System of Transfusion Medicine.
