

IMMUNOHAEMATOLOGY & BLOOD TRANSFUSION

PAPER-II

IMBT/D/18/15/II

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:

- What are the merits/demerits of automated immunohaematology testing? 5+5
 - Describe briefly various automated pre-transfusion testing platforms.
- Transfusion support in ABO incompatible hematopoietic stem cell transplant. 10
- Describe electronic cross-match. 6+4
 - Discuss its feasibility in India.
- Discuss Transfusion Protocols in the management of Thalassemia. 10
- Discuss the types and pathophysiology of Autoimmune Hemolytic Anemia. 5+5
 - Its laboratory evaluation and transfusion support.
- Principle of apheresis technique. 2+8
 - Classify therapeutic indications of apheresis as per ASFA guideline.
- Pathophysiology of vasovagal reactions. 5+5
 - Their management and preventive strategies.
- Enumerate the transfusion transmitted infections. 5+5
 - How will you investigate an alleged incident of transfusion transmitted HIV infection in recipients?
- What is meant by 'Extended Phenotyping' of red cells? 5+5
 - What is the advantage of molecular methods of extended phenotyping over serological methods?
- Discuss the principles of flow Cytometry using diagrams. 3+7
 - Describe the uses of flow cytometry in current transfusion medicine practice.
