

IMMUNOHEMATOLOGY & TRANSFUSION MEDICINE

PAPER – IV

IMHT/D/15/15/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:

1.	a) What is Microarray Technology?	3
	b) Application of Microarray Technology in Transfusion Medicine.	7
2.	Role of Transfusion Medicine Consultant in perioperative haemostasis.	10
3.	a) Emerging infections that are threatening the Blood Safety in India.	5
	b) What factors you would consider prior to implementing a screening test for these infections on all blood donations?	5
4.	Methods for evaluation of Platelet Function defects.	10
5.	a) Platelet gel and its applications.	10
	b) Current status of clinical uses of Intravenous Immunoglobulins (Ivlg).	
6.	Uses of Recombinant Monoclonal Antibodies (MCAs) in current Transfusion Medicine Practice.	10
7.	a) What is Electronic Cross Match?	4
	b) Its feasibility in our country.	6
8.	Various points of care tests to reduce transfusion requirements in elective surgery.	10
9.	What is stem cell plasticity? How this property of stem cells is being used in Regenerative Medicine.	5+5
10.	a) Accreditation of Blood Banks and list in brief a logarithmic approach.	5
	b) What are the Quality Control requirements for Accreditation with respect to Blood and Blood Components?	5
