IMMUNOHEMATOLOGY & TRANSFUSION MEDICINE

PAPER – II

IMHT/D/15/15/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:

1.	a) Molecular structure of Rh gene.	5
	b) Molecular mechanisms responsible for Rh D negative phenotype.	5
2.	a) What is Panagglutination?	2
	b) Its Laboratory diagnosis.	5
	c) Various types of Panagglutination.	3
3.	a) Current protocols for peripheral blood stem cell collection.	6
	b) What are the common and rarer side effects?	4
4.	a) What is Rare Blood Donor?	3
	b) Various essential elements in establishing Donor Registry in India.	7
5.	a) Define platelet storage lesions and its clinical significance.	5
	b) Various preventive measures for platelet storage lesion.	5
6.	a) Compare and Contrast ABO Haemolytic disease of Newborn versus Rh Haemolytic disease of newborn.	5
	b) Antenatal management of a case of Rh haemolytic disease of newborn.	5
7.	Immunohaematological monitoring in a case of ABO mismatched Bone Marrow Transplantation.	10
8.	a) HTLA antibodies.	5
	b) Monoclonal antibodies.	5
9.	a) Define Transfusion Probability, Transfusion Index and cross match ratio.	5
	b) What is their significance in Transfusion Medicine?	5
10.	Strategies for motivation and retention of Blood Donors in rural population.	10

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