IMMUNOHEMATOLOGY & TRANSFUSION MEDICINE
PAPER – 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.
   b) Molecular mechanisms responsible for Rh D negative phenotype.

2. a) What is Panagglutination?
   b) Its Laboratory diagnosis.
   c) Various types of Panagglutination.

3. a) Current protocols for peripheral blood stem cell collection.
    b) What are the common and rarer side effects?

4. a) What is Rare Blood Donor?
    b) Various essential elements in establishing Donor Registry in India.

5. a) Define platelet storage lesions and its clinical significance.
    b) Various preventive measures for platelet storage lesion.

6. a) Compare and Contrast ABO Haemolytic disease of Newborn versus Rh Haemolytic disease of newborn.
    b) Antenatal management of a case of Rh haemolytic disease of newborn.

7. Immunohaematological monitoring in a case of ABO mismatched Bone Marrow Transplantation.

8. a) HTLA antibodies.
    b) Monoclonal antibodies.

9. a) Define Transfusion Probability, Transfusion Index and cross match ratio.
    b) What is their significance in Transfusion Medicine?

10. Strategies for motivation and retention of Blood Donors in rural population.

POSSSESSION / USE OF CELL PHONES OR ANY SUCH ELECTRONIC GADGETS IS NOT PERMITTED INSIDE THE EXAMINATION HALL.