IMMUNOHEMATOLOGY & TRANSFUSION MEDICINE

PAPER - I

IMHT/D/13/15/I

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.		Describe origin and differentiation of hematopoietic cells, Classify anemia according to underlying mechanisms.	5+5
2.		Complement cascade in health. Mechanism of complement mediated hemolysis.	5+5
3.		Give schematic illustration of common inheritance patterns. Describe general properties of autosomal recessive disorders.	5+5
4.		Human neutrophil antigen (HNA) system. Role of HNA antibodies in adverse effects of transfusion.	5+5
5.		Pathogenesis of different types of shock. Role of plasma volume expanders in hypovolemic shock.	5+5
6.		CFU – assay. F VIII : structure and function.	5+5
7.		Describe anticoagulant and preservative solution for red cells. Discuss clinical consequences of red cell storage lesions.	5+5
8.		Hypersensitivity reactions. Role of Type I hypersensitivity in transfusion reaction.	5+5
9.	Biov	waste management in blood banks.	10
10.		Give schematic illustration of synthesis of ABH antigens: Discuss molecular basis of Bombay Phenotype.	5+5
