

IMMUNO-HEMATOLOGY & TRANSFUSION MEDICINE PAPER-I

IHTM /D/17/15/I

TIME : 3 HOURS MAX. MARKS : 100

DECEMBER 2017

- 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 question 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.		Regulatory T cells (Tregs) Their role in Immune Tolerance	5+5
2.	a. b.	Describe pathophysiology of shock. Describe roles of various expanders.	5+5
3.		Iron metabolism in healthy individual Biochemical markers of iron deficiency	5+5
4.	a. b.	Molecular structure of Hepatitis B virus (HBV) Importance of HBV mutants in transfusion medicine	5+5
5.		Membrane attack complex (MAC) in complement activation Antibody mediated hyperacute rejection of solid organ transplant	5+5
6.	a. b.	Schematic illustration of common inheritance patterns General properties of Autosomal Recessive disorders	5+5
7.	a. b.	Mechanism of fibrinolysis Natural anticoagulants	5+5
8.	a. b.	Types of Hypersenstivity reactions Applied aspects of Type I hypersensitivity reaction in Transfusion Medicine	5+5
9.	a. b.	Laboratory diagnosis of G6PD deficiency Applied aspects in Transfusion Medicine	5+5
10.	a. b. c.	What is reticulated platelet? Describe methods of its detection. Its relevance in Transfusion Medicine	2+3+5
