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## **IMMUNOHAEMATOLOGY & BLOOD TRANSFUSION**

## PAPER-III

Time: 3 hours IMHT/J/19/15/III

Max. Marks:100

**JUNE 2019** 

- 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) Define the triggers for intrauterine transfusion. b) How will you select unit of blood for intrauterine transfusion?	5+5
2.	<ul><li>a) Define Human Leucocyte Antigen system [HLA].</li><li>b) Role of HLA system in relation to Solid Organ and Bone Marrow Transplantation.</li></ul>	5+5
3.	<ul><li>a) Pathogenesis of Transfusion Associated GVHD.</li><li>b) Strategies to minimize TAGVHD in Allogeneic stem cell transplantation.</li></ul>	5+5
4.	Strategies to decrease donor exposure in neonates.	10
5.	<ul><li>a) Discuss different types of blood group discrepancies.</li><li>b) Describe algorithm for the resolution of Group II &amp; III ABO discrepancies.</li></ul>	5+5
6.	Compare and Contrast ABO & Rh D Hemolytic Disease of New born (HDN).	10
7.	<ul> <li>a) Define window period in relation to current mandatory serological screening of transfusion transmissible infectious markers in our country.</li> <li>b) Describe strategies to decrease window period of transfusion transmitted infections (TTI).</li> </ul>	5+5
8.	<ul><li>a) Therapeutic Plasma Exchange [TPE].</li><li>b) Discuss type I &amp; type II indications of TPE as per ASFA guidelines.</li></ul>	5+5
9.	<ul><li>a) Enumerate Plasma volume expanders.</li><li>b) Role of plasma expanders in management of shock.</li></ul>	5+5
10.	<ul> <li>a) What are different types of Red Cell Substitutes?</li> <li>b) Applications and limitations of Red Cell Substitutes in transfusion practice.</li> </ul>	5+5