

IMMUNOHEMATOLOGY AND BLOOD TRANSFUSION
PAPER-III

Time: 3 hours
Max. Marks:100

IMHT/J/20/15/III

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:

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| 1. | Role of transfusion medicine specialist in ABO incompatible Kidney Transplant. | 10 |
| 2. | Pathophysiology, diagnosis and management of fetal and neo-natal alloimmune thrombocytopenia. | 10 |
| 3. | a) Functions of Hospital Transfusion Committee.
b) Rational use of blood components. | 5+5 |
| 4. | a) Cryopreservation of peripheral blood stem cells.
b) Factors affecting the quality of cryopreserved stem cells. | 5+5 |
| 5. | a) Pathogenesis of Transfusion Associated Acute Lung Injury (TRALI).
b) Strategies for prevention of TRALI. | 5+5 |
| 6. | a) Massive Transfusion Protocols.
b) How will you minimize the common side effects of massive transfusion? | 5+5 |
| 7. | a) Pathogenesis of trauma induced coagulopathy.
b) Blood component therapy in the management of trauma induced coagulopathy. | 5+5 |
| 8. | a) Methods of quantification of anti-D in an immunized mother.
b) Clinical significance of anti-D quantification in the management of immunized mother. | 5+5 |

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9. a) Clinically significant red cell antibodies. 5+5
b) Cellular assays to decide hemolytic potential of red cell antibody.
- 10 a) Transfusion support in a case of dengue haemorrhagic syndrome. 5+5
b) Risk mitigation strategies for transfusion transmitted dengue in India.
