

IMMUNOHAEMATOLOGY & BLOOD TRANSFUSION

PAPER-III

IMBT/D/18/15/III

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. Discuss strategies to reduce inappropriate red blood cell transfusion. 10
2. a) Discuss lab evaluation of anti-D alloimmunised antenatal female. 5+5
b) Preparation of a unit for intrauterine transfusion.
3. Describe pathogen inactivation methods. 10
4. a) Pathophysiology of DIC. 5+5
b) Role of TEG in management of DIC patient.
5. a) Describe the process of internal audit. 5+5
b) Role of internal audit in quality management system.
6. a) Different methods of leucoreduction. 5+5
b) Clinical benefits of leucoreduction.
7. a) What is the pathophysiology of passenger lymphocyte syndrome? 5+5
b) Describe its diagnosis and transfusion management.
8. a) Pathophysiology of Neonatal alloimmune thrombocytopenia. 5+5
b) Its diagnosis and management.
9. a) Permissive areas for stem cell research in India. 5+5
b) Requirements for stem cell clinical trials as per current Stem Cell Research Guidelines.
10. a) Describe techniques of cryopreservation of red cells. 6+4
b) Clinical utility of cryopreserved red cells.
