

IMMUNOHEMATOLOGY & TRANSFUSION MEDICINE

PAPER - III

IMHT/D/13/15/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.

1. a) Define audit in blood banking. 2+4+4
b) How would you organise an audit of FFP usage at your hospital?
c) How would you use the results of your audit to improve transfusion practices in your hospital?
2. a) Describe mechanisms of bleeding in a patient undergoing cardio-pulmonary bypass. 5+5
b) Discuss the use of point-of-care tests to manage such a case.
3. Discuss transfusion support in the following: 5+5
a) Premature neonate
b) Warm autoimmune hemolytic anemia
4. a) Define massive transfusion. 2+8
b) Draft a massive transfusion protocol (MTP) for management of post partum hemorrhage at your hospital.
5. Discuss the steps that the blood banks in India have to take when a donor unit is found to be positive for HIV screening test. 10
6. a) What is the pathogenesis of TRALI? 4+6
b) Discuss strategies for prevention of TRALI.
7. a) What are the functions of Hospital Transfusion Committee (HTC)? 4+6
b) Prepare a set of guidelines on the appropriate use of platelets to be presented to HTC at your hospital.
8. a) Draw the structure of Hepatitis B virus (HBV). 2+4+4
b) Discuss various markers of HBV infection.
c) How would you investigate a case of post transfusion hepatitis?
9. a) How would you organize an outdoor voluntary blood donation camp for 300 blood donors? 5+5
b) What measures should be taken to maintain the quality of collected blood in such a camp?
10. a) How do you diagnose clinically an acute transfusion reaction due to bacterial contamination of the blood products? 2+3+5
b) Discuss investigations and immediate management.
c) What measures would you take to prevent bacterial contamination of blood?
