

IMMUNO-HEMATOLOGY & TRANSFUSION MEDICINE

PAPER – II

IHTM/D/16/15/II

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. a) Detail out the important component of computer crossmatch. 6+4
b) Steps to validate the software for computer crossmatch.
2. a) Major ABO mismatch allogenic bone marrow transplant. 3+3+4
b) Preparation of the bone marrow harvest.
c) Transfusion management.
3. a) HLA crossmatch. 5+5
b) Methods to enhance sensitivity of identifying HLA antibodies.
4. Advise patient who insists that she has been typed as A RhD positive. 10
before in another hospital but has been typed as A RhD negative in your laboratory.
5. Advise a 32 year old regular blood donor who has donated blood five 10
weeks ago and wants to donate platelets on this occasion.
6. a) A 22 year old medical student has been donating blood once a year 5+5
for the past 3 years. No problems were encountered previously but
the third time the donated unit was found to be anti-HIV reactive.
b) As the in-charge how will you manage the situation?
c) What actions can be taken to prevent re-occurrence?
7. a) TRALI 6+4
b) What is the incidence of TRALI in India and reasons why it is low?
8. a) Stem cell enumeration for harvest. 6+4
b) Stem cell harvest and its quality check.
9. a) Platelet antigen system. 6+4
b) Post transfusion purpura.
10. a) A 35 year old Bengali labourer comes to donate blood in your blood 5+5
bank which is in Maharashtra. How will you go about helping him
donate blood?
b) How will you arrange pre & post donation counseling?
