

IMMUNO-HEMATOLOGY & TRANSFUSION MEDICINE

PAPER – III

IHTM/D/16/15/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 the investigations and management in a 56 year old male who is bleeding following a CABG. He has received streptokinase, Abciximab (Gp IIb IIIa inhibitor) and Clopidogrel. 10
2. An 18 year old boy with severe haemophilia A is detected to have inhibitors of 2 Bethesda Units. Mention: 6+4
 - a) Short term management in a bleed.
 - b) Long term management.
3. A 30 year old lady who is 34 weeks pregnant and has a platelet count of $40 \times 10^9/L$ with large platelets. How will you investigate and manage this patient? 5+5
4. A 42 year old male with acute promyelocytic leukemia with seizures and bleeding gums. 5+5
 - a) Outline the approach to this patient.
 - b) What blood products would you recommend based on your findings?
5. A 25 year old lady has post partum hemorrhage and massive blood loss 6+4
 - a) Investigations and transfusion support.
 - b) Use of recombinant activated FVIIa (Novoseven) in this situation.
6. Preterm neonate delivered at 32 weeks of gestation. Most suitable blood component & reasons thereof since he is requiring top up for: 4+6
 - a) Platelets
 - b) Red cells
7. Enumerate pathogen reduction strategies in blood and blood products. 10
8. You have been asked to develop a program for Thalassaemia management in your town. 4+6
 - a) Outline the feasibility of a screening program.
 - b) Enumerate the facility development for investigations and management.
9. a) Cord blood banking. 5+5
b) Processing and storage for a public cord blood bank.
10. You have been asked to develop blood storage centres at 3 of your satellite hospitals which offer all medical and surgical subspecialities. 4+6
 - a) Evaluate the need and outline facility management.
 - b) Blood stock management.
