

IMMUNO-HEMATOLOGY & TRANSFUSION MEDICINE

PAPER – IV

IHTM/D/16/15/IV

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) Quality assurance of Immunohaematology laboratory. 4+(3+3)
b) How do you ensure:
i) Precision
ii) Accuracy
2. Steps that can be taken within your hospital to minimize “Wrong blood in tube”. 10
3. a) What are DOACs? 4+6
b) Laboratory monitoring and management of hemorrhage.
4. Gene Therapy in Haemophilia. 10
5. a) QC of Cryoprecipitate. 4+3+3
b) QC of Platelet Concentrate.
c) QC for red cell storage.
6. Design an emergency blood management plan for your hospital to be activated when outbreak of Dengue has reduced 50% stocks in the blood bank. 10
7. Point of care devices for haemostasis monitoring during prolonged surgeries. 10
8. a) Ebola virus: Transmission risk to laboratory personnel. 6+4
b) Ebola virus and pre-transfusion testing.
9. a) Extended storage of Platelets. 5+5
b) Platelet bacteria screening.
10. a) Red blood cells microvesicles. 5+5
b) Platelet microparticles.
