

FINAL EXAM
DECEMBER 2016

NATIONAL BOARD OF EXAMINATIONS

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. | |
