

IMMUNOHEMATOLOGY AND BLOOD TRANSFUSION
PAPER-II

Time: 3 hours
Max. Marks:100

IMHT/J/20/15/II

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. Write a SOP on weak D testing. 10

2. Classify adverse effects of blood transfusion and investigate a case of acute hemolytic transfusion reaction. 5+5

3. a) How will you evaluate autoantibodies? 5+5
b) Transfusion support of a patient with warm autoimmune hemolytic anemia.

4. a) Lab investigations of passenger lymphocyte syndrome. 5+5
b) Its pathogenesis and management.

5. a) Principles of molecular blood grouping. 5+5
b) Its advantages and disadvantages compared to serological blood grouping.

6. a) Define Quality Control Criteria for Cryoprecipitate. 5+5
b) Factors affecting quality of Cryoprecipitate.

7. Develop a protocol for Pre-deposit autologous blood donation in an upcoming super specialty hospital. 10

8. a) What is multi-component collection? 2+4+4
b) Rationale for multi-component collection.
c) Advantages of multi-component collection to blood centre.

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9. a) Enumerate indications for gamma irradiated blood components. 3+7
b) Regulatory & safety requirements for procurement and installation of gamma blood irradiator in India.
- 10 a) Define transfusion probability, transfusion index and cross match ratio. 5+5
b) What is their significance in Transfusion Medicine?
