

National Board of Examinations

Question Paper Name : DNB Immunoematology and Blood Transfusion Paper2
Subject Name : DNB Immunoematology and Blood Transfusion Paper2
Duration : 182
Total Marks : 100
Display Marks: No

Maximum Instruction Time : 0
Is Section Default? : No

Question Number : 1 Question Id : 32718744668 Consider As Subjective : Yes

Please write your answers in the answer booklet within the allotted pages as follows:-

Question Number	Answer to be attempted within	Question Number	Answer to be attempted within
Q. 1	Page 1-5	Q. 6	Page 26-30
Q. 2	Page 6-10	Q. 7	Page 31-35
Q. 3	Page 11-15	Q. 8	Page 36-40
Q. 4	Page 16-20	Q. 9	Page 41-45
Q. 5	Page 21-25	Q. 10	Page 46-50

1. Explain the various types and techniques of autologous transfusion, highlighting predeposit autologous donation, intraoperative cell salvage and acute normovolemic hemodilution (ANH). [10]

Question Number : 2 Question Id : 32718744669 Consider As Subjective : Yes

Compare and contrast a fixed massive transfusion protocol with targeted therapy for managing massive hemorrhage. Describe how you would provide blood component support to a patient with acute blood loss following a road traffic accident (RTA). [10]

Question Number : 3 Question Id : 32718744670 Consider As Subjective : Yes

- a) Therapeutic plasma exchange (TPE) – enumerate the indications and describe the different types of replacement fluids used. [5]
- b) Leukapheresis – discuss the clinical indications, outline the procedure, and mention the precautions necessary to ensure donor and patient safety. [5]

Question Number : 4 Question Id : 32718744671 Consider As Subjective : Yes

Discuss the measures which can be implemented by blood centres to prevent bacterial contamination of blood components. [10]

Question Number : 5 Question Id : 32718744672 Consider As Subjective : Yes

What do you mean by Transfusion probability (TP), Transfusion index (TI) and Cross-match to transfusion Ratio (CTR)? What is their significance in transfusion medicine? [5+5]

Question Number : 6 Question Id : 32718744673 Consider As Subjective : Yes

Describe blood unit selection for emergency transfusion. Briefly discuss the electronic crossmatch along with the pros and cons for its adoption in our country. [5+5]

Question Number : 7 Question Id : 32718744674 Consider As Subjective : Yes

How would you diagnose a patient with cold agglutinin disease? Describe the steps to select compatible red cell units for transfusion in a patient with circulating cold agglutinins. [5+5]

Question Number : 8 Question Id : 32718744675 Consider As Subjective : Yes

- a) Direct Antiglobulin Test (DAT) – causes and clinical significance of a positive result. [4]
- b) Antibody titration – principle, procedure and relevance. [3]
- c) Anti-Human Globulin (AHG) test – common sources of error and limitations [3]

Question Number : 9 Question Id : 32718744676 Consider As Subjective : Yes

Describe Transfusion-Associated Acute Gut Injury (TRAGI) with emphasis on pathophysiology, diagnosis and its prevention. [4+3+3]

Question Number : 10 Question Id : 32718744677 Consider As Subjective : Yes

Explain cold chain management and storage conditions for blood components, emphasizing quality maintenance in modern blood centers. [5+5]