

National Board of Examinations

Question Paper Name :	DNB Immunohematology and Blood Transfusion Paper2
Subject Name :	DNB Immunohematology and Blood Transfusion Paper2
Creation Date :	2024-05-16 18:56:45
Duration :	180
Share Answer Key With Delivery Engine :	No
Actual Answer Key :	No

DNB Immunohematology and Blood Transfusion Paper2

Group Number :	1
Group Id :	3271871962
Group Maximum Duration :	0
Group Minimum Duration :	180
Show Attended Group? :	No
Edit Attended Group? :	No
Group Marks :	100
Is this Group for Examiner? :	No
Examiner permission :	Cant View
Show Progress Bar? :	No

DNB Immunohematology and Blood Transfusion Paper2

Section Id :	3271871965
Section Number :	1

Section type : Offline
Mandatory or Optional : Mandatory
Number of Questions to be attempted : 10
Section Marks : 100
Enable Mark as Answered Mark for Review and Clear Response : Yes
Maximum Instruction Time : 0
Sub-Section Number : 1
Sub-Section Id : 3271871969
Question Shuffling Allowed : No
Is Section Default? : null

Question Number : 1 Question Id : 32718719232 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 10

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. Describe the factors affecting the quality of Platelet preparations for transfusion and draw a fish bone diagram for analysis of bacterial contamination of a platelet concentrate. [5+5]

Question Number : 2 Question Id : 32718719233 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 10

A 25-year-old patient with acute liver failure develops breathlessness about 8 hours after receiving a unit of apheresis platelets.

- a) What could be the possible causes? [3]
- b) What tests would you request in order to confirm the diagnosis? [4]
- c) What would be your approach to manage this patient? [3]

Question Number : 3 Question Id : 32718719234 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 10

Define Platelet refractoriness. How will you determine the clinical efficacy of transfused platelets? Discuss the measures that may be implemented to decrease the risks associated with transfusion of ABO incompatible platelet. [3+3+4]

Question Number : 4 Question Id : 32718719235 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 10

Plan a pre-transfusion testing protocol for a resource rich setting with an aim to provide optimal transfusion services. [10]

Question Number : 5 Question Id : 32718719236 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 10

A 63-year-old female has to undergo a hip transplantation surgery. Describe how you will plan autologous blood transfusion for her. What precautions will you take to avoid any adverse events or complications due to blood transfusion? [5+5]

Question Number : 6 Question Id : 32718719237 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 10

Describe the common adverse events encountered during plateletpheresis. Discuss the preventive measures and management of these adverse events. [4+3+3]

Question Number : 7 Question Id : 32718719238 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 10

Discuss the role of therapeutic red cell exchange in clinical practice. [10]

Question Number : 8 Question Id : 32718719239 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 10

Discuss the approach to providing red cell transfusion support to a patient with cold auto-antibodies. What are the antibodies commonly implicated in cold agglutinin disease? What instructions will you give to the clinician requisitioning RBCs for such a patient? [5+3+2]

Question Number : 9 Question Id : 32718719240 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 10

Describe the pathophysiology of post transfusion purpura (PTP). Discuss the management of PTP. [5+5]

Question Number : 10 Question Id : 32718719241 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 10

Discuss the advantages of leucodepletion of blood components. Enumerate the methods used for quality control of leucodepleted red cell concentrates and platelet concentrates. [5+5]