

National Board of Examinations

Question Paper Name :	DNB Immunohematology and Blood Transfusion Paper2
Subject Name :	DNB Immunohematology and Blood Transfusion Paper2
Creation Date :	2023-10-15 14:13:35
Duration :	180
Share Answer Key With Delivery Engine :	No
Actual Answer Key :	No

DNB Immunohematology and Blood Transfusion Paper2

Group Number :	1
Group Id :	3271872515
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 :	3271872518
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 :	3271872522
Question Shuffling Allowed :	No
Is Section Default? :	null

Question Number : 1 Question Id : 32718725383 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 quality assurance measures which are implemented to prevent bacterial contamination of blood components during:

- Donor selection. [2]
- Blood collection. [2]
- Component preparation. [2]
- Component storage. [2]
- Component issue and transfusion. [2]

Question Number : 2 Question Id : 32718725384 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 quality control of equipment used in blood component preparation. [10]

Question Number : 3 Question Id : 32718725385 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 10

Make checklists for inspection of following components prior to issue:

- a) Packed RBCs. [4]
- b) FFP. [3]
- c) Platelet components. [3]

Question Number : 4 Question Id : 32718725386 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 therapeutic plasma exchange in a patient with hyperleucocytosis who is at risk of tumour lysis syndrome, under the following heads:

- a) Pre-procedure patient examination. [2]
- b) Pre-procedure laboratory investigations. [2]
- c) Precautions during the procedure. [2]
- d) Parameters monitored during procedure. [2]
- e) Post procedure management. [2]

Question Number : 5 Question Id : 32718725387 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 10

How will you differentiate TA-GVHD from GVHD in a patient post-solid organ transplant? What are the patient management strategies in both cases? [4+6]

Question Number : 6 Question Id : 32718725388 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 autologous blood collection in a 54-year-old female with a haemoglobin of 11.5 gm.%, in whom total hip replacement is planned after one month. Describe other PBM measures which can be implanted to reduce risk of homologous blood transfusion. [5+5]

Question Number : 7 Question Id : 32718725389 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 10

How will you approach the immunohematology work-up in a 23-year-old pregnant female who has received a RBC transfusion one month back and has a positive ICT, DCT and AC? [10]

Question Number : 8 Question Id : 32718725390 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 10

What are the additional requirements beyond those for a routine blood donation in case of apheresis donation of various blood components as per the Drugs & Cosmetics Act & Rules, 1945 amended March, 2020 (Second Amendment). [10]

Question Number : 9 Question Id : 32718725391 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 plan for setting up a Transfusion Transmissible Infections testing laboratory to provide the safest possible blood components for blood & apheresis donations while maintaining the quality indicators as prescribed by NABH. [10]

Question Number : 10 Question Id : 32718725392 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 measures to prevent red cell contamination of blood components other than PRBCs.
What are the disadvantages of RBC contamination and how should such components be used.

[4+(3+3)]