

# National Board of Examinations

<b>Question Paper Name :</b>	DNB Immunohematology and Blood Transfusion Paper2
<b>Subject Name :</b>	DNB Immunohematology and Blood Transfusion Paper2
<b>Creation Date :</b>	2022-12-22 19:37:50
<b>Duration :</b>	180
<b>Share Answer Key With Delivery Engine :</b>	No
<b>Actual Answer Key :</b>	No

## **DNB Immunohematology and Blood Transfusion Paper2**

<b>Group Number :</b>	1
<b>Group Id :</b>	3271871445
<b>Group Maximum Duration :</b>	0
<b>Group Minimum Duration :</b>	180
<b>Show Attended Group? :</b>	No
<b>Edit Attended Group? :</b>	No
<b>Group Marks :</b>	100
<b>Is this Group for Examiner? :</b>	No
<b>Examiner permission :</b>	Cant View
<b>Show Progress Bar? :</b>	No

## **DNB Immunohematology and Blood Transfusion Paper2**

<b>Section Id :</b>	3271871448
<b>Section Number :</b>	1

<b>Section type :</b>	Offline
<b>Mandatory or Optional :</b>	Mandatory
<b>Number of Questions to be attempted :</b>	10
<b>Section Marks :</b>	100
<b>Enable Mark as Answered Mark for Review and Clear Response :</b>	Yes
<b>Maximum Instruction Time :</b>	0
<b>Sub-Section Number :</b>	1
<b>Sub-Section Id :</b>	3271871452
<b>Question Shuffling Allowed :</b>	No
<b>Is Section Default? :</b>	null

**Question Number : 1 Question Id : 32718713532 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.a) Iron metabolism in health. [5]

b) Describe laboratory markers for early detection of iron deficiency in blood donors. [5]

**Question Number : 2 Question Id : 32718713533 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) Discuss classification of donor adverse reactions. [4]

b) Write note on pathophysiology of vasovagal reaction in blood donor. [6]

**Question Number : 3 Question Id : 32718713534 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) Describe methods for preparation of platelet concentrates. [5]
- b) Discuss factors affecting quality of platelet concentrates. [5]

**Question Number : 4 Question Id : 32718713535 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) Problems in pre-transfusion testing in a patient with cold antibody. [4]
- b) Resolution of incompatible crossmatch with a positive auto control. [6]

**Question Number : 5 Question Id : 32718713536 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 transfusion related acute lung injury (TRALI) in relation to following:

- a) Pathophysiology. [6]
- b) Prevention of TRALI. [4]

**Question Number : 6 Question Id : 32718713537 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) Enlist bacteria responsible for contamination of various blood components. [4]
- b) Describe methods for bacterial detection in blood components. [6]

**Question Number : 7 Question Id : 32718713538 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 various technical aspects of Blood transfusion. [10]

**Question Number : 8 Question Id : 32718713539 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) Hepatitis B virus genome. [5]

b) Mutants of hepatitis B virus. [5]

**Question Number : 9 Question Id : 32718713540 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) Discuss pathophysiology of acute haemolytic transfusion reaction. [5]

b) Explain the steps performed in the investigation of a case of acute haemolytic transfusion reaction. [5]

**Question Number : 10 Question Id : 32718713541 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 extracorporeal photopheresis in relation to the following:

a) Principle. [5]

b) Indication. [5]