

# National Board of Examinations

<b>Question Paper Name :</b>	DNB Immunohematology and Blood Transfusion Paper4
<b>Subject Name :</b>	DNB Immunohematology and Blood Transfusion Paper4
<b>Creation Date :</b>	2023-10-16 09:54:22
<b>Duration :</b>	180
<b>Share Answer Key With Delivery Engine :</b>	No
<b>Actual Answer Key :</b>	No

## **DNB Immunohematology and Blood Transfusion Paper4**

<b>Group Number :</b>	1
<b>Group Id :</b>	3271872517
<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 Paper4**

<b>Section Id :</b>	3271872520
<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>	3271872524
<b>Question Shuffling Allowed :</b>	No
<b>Is Section Default? :</b>	null

**Question Number : 1 Question Id : 32718725403 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. Which categories of donors are considered high risk? What will be your course of action if a blood donor is detected to be HIV positive? [5+5]

**Question Number : 2 Question Id : 32718725404 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 a TQM plan for the quality control laboratory of a blood centre. [10]

**Question Number : 3 Question Id : 32718725405 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 10**

List the universal precautions for medical laboratories. [10]

**Question Number : 4 Question Id : 32718725406 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 benefits, challenges and limitations of automation in the blood group serology laboratory. [4+3+3]

**Question Number : 5 Question Id : 32718725407 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 in brief 5 methods used for molecular typing of blood group antigens. [2+2+2+2+2]

**Question Number : 6 Question Id : 32718725408 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 10**

Write the plan for setting up a centre for sickle cell anaemia management in your hospital. [10]

**Question Number : 7 Question Id : 32718725409 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 10**

List Quality Management System (QMS) essentials and the blood centre operations to which they are applied. [6+4]

**Question Number : 8 Question Id : 32718725410 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 possible roles of machine learning and artificial intelligence in Transfusion Medicine?  
[10]

**Question Number : 9 Question Id : 32718725411 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 process to be followed in the case of a needle stick injury. [10]

**Question Number : 10 Question Id : 32718725412 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 possible applications of metabolomics in Transfusion Medicine. [10]