

# 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>	2024-10-21 16:15:42
<b>Duration :</b>	180
<b>Total Marks :</b>	100
<b>Display Marks:</b>	No
<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>	3271872755
<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>Break time :</b>	0
<b>Group Marks :</b>	100

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

<b>Section Id :</b>	3271872758
<b>Section Number :</b>	1
<b>Section type :</b>	Offline
<b>Mandatory or Optional :</b>	Mandatory
<b>Number of Questions :</b>	10
<b>Number of Questions to be attempted :</b>	10
<b>Section Marks :</b>	100
<b>Maximum Instruction Time :</b>	0
<b>Sub-Section Number :</b>	1
<b>Sub-Section Id :</b>	3271872762
<b>Question Shuffling Allowed :</b>	No

**Question Number : 1 Question Id : 32718728834 Question Type : SUBJECTIVE Consider As**

**Subjective : Yes**

**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 legal and ethical issues involved in blood donation, processing of blood components and providing transfusion services to the patients. [5+5]

**Question Number : 2 Question Id : 32718728835 Question Type : SUBJECTIVE Consider As Subjective : Yes**

**Correct Marks : 10**

Describe biomarkers of Neonatal sepsis. [10]

**Question Number : 3 Question Id : 32718728836 Question Type : SUBJECTIVE Consider As Subjective : Yes**

**Correct Marks : 10**

Discuss about Designer Erythroblasts. [10]

**Question Number : 4 Question Id : 32718728837 Question Type : SUBJECTIVE Consider As Subjective : Yes**

**Correct Marks : 10**

Discuss about Fluorescent microsphere based Immunoassay (Luminex Technology) in Blood transfusion service. [10]

**Question Number : 5 Question Id : 32718728838 Question Type : SUBJECTIVE Consider As Subjective : Yes**

**Correct Marks : 10**

Discuss role of transfusion medicine in Regenerative Medicine. [10]

**Question Number : 6 Question Id : 32718728839 Question Type : SUBJECTIVE Consider As Subjective : Yes**

**Correct Marks : 10**

Describe the types of Audit and their role in Quality Management System of transfusion services. [5+5]

**Question Number : 7 Question Id : 32718728840 Question Type : SUBJECTIVE Consider As Subjective : Yes**

**Correct Marks : 10**

a) Enumerate the latest rapid blood grouping and typing methods, their advantages and limitations. [5]

b) Compare the column agglutination method and SPRCA (Solid Phase Red Cell Adherence Assay) technologies in terms of equipment, interpretation, procedure, sensitivity & specificity and quality control. [5]

**Question Number : 8 Question Id : 32718728841 Question Type : SUBJECTIVE Consider As Subjective : Yes**

**Correct Marks : 10**

Identify the standard operating procedures (SOPs) needed to manage a Blood Centre Information System. [10]

**Question Number : 9 Question Id : 32718728842 Question Type : SUBJECTIVE Consider As Subjective : Yes**

**Correct Marks : 10**

Discuss principles and methods of Nucleic Acid Amplification testing in a Blood Centre setting. [5+5]

**Question Number : 10 Question Id : 32718728843 Question Type : SUBJECTIVE Consider As Subjective : Yes**

**Correct Marks : 10**

Classify immune mediated adverse transfusion reactions. Discuss about Immunomodulatory effects of Blood transfusion (TRIM). [3+7]