

National Board of Examinations

Question Paper Name :	DNB Immunohematology and Blood Transfusion Paper1
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Actual Answer Key :	No

DNB Immunohematology and Blood Transfusion Paper1

Group Number :	1
Group Id :	3271871444
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 Paper1

Section Id :	3271871447
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 :	3271871451
Question Shuffling Allowed :	No
Is Section Default? :	null

Question Number : 1 Question Id : 32718713522 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) Different Plasticizers used in Blood Banking. [4]

b) Effects of Plasticizers on red blood cells and platelets during storage. [6]

Question Number : 2 Question Id : 32718713523 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 10

Explain platelets with regard to:

a) Structure. [2]

b) Glycoprotein receptors on platelets. [3]

c) Role of platelets in haemostasis. [5]

Question Number : 3 Question Id : 32718713524 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 ABO blood group system in relation to:

a) Synthesis of A and B antigens. [5]

b) Subgroups of A blood group system and their clinical significance. [5]

Question Number : 4 Question Id : 32718713525 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 Compatibility procedures in the hospital transfusion laboratory. [10]

Question Number : 5 Question Id : 32718713526 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) Enumerate types of antigen-antibody reactions. [2]

b) Discuss factors affecting antigen-antibody reaction. [8]

Question Number : 6 Question Id : 32718713527 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) Enumerate various types of epidemiological studies. [4]

b) Explain the terms 'Sensitivity' and 'Specificity' with appropriate examples. [6]

Question Number : 7 Question Id : 32718713528 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 short note on Immunoglobulins in relation to:

- a) Structure. [3]
- b) Difference between IgG and IgM immunoglobulins. [4]
- c) IgG subclasses and their clinical significance. [3]

Question Number : 8 Question Id : 32718713529 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) What are different Subtypes of T lymphocytes? [3]
- b) Discuss role of T lymphocytes in Transfusion Medicine. [7]

Question Number : 9 Question Id : 32718713530 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) Enumerate causes of neutropenia. [3]
- b) How are neutrophils collected for transfusion? [4]
- c) Discuss neutrophil transfusion in clinical medicine. [3]

Question Number : 10 Question Id : 32718713531 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) What do you mean by population genetics? [3]

b) Discuss application of population genetics in distribution of human blood group system. [7]