

National Board of Examinations

Question Paper Name :	DNB Immunohematology and Blood Transfusion Paper1
Subject Name :	DNB Immunohematology and Blood Transfusion Paper1
Creation Date :	2023-10-15 14:12:09
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Share Answer Key With Delivery Engine :	No
Actual Answer Key :	No

DNB Immunohematology and Blood Transfusion Paper1

Group Number :	1
Group Id :	3271872514
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 :	3271872517
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 :	3271872521
Question Shuffling Allowed :	No
Is Section Default? :	null

Question Number : 1 Question Id : 32718725373 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 erythropoiesis. What is its clinical relevance in haemolytic disease of foetus and newborn (HDFN)? [5+5]

Question Number : 2 Question Id : 32718725374 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 inheritance of:

a) ABO blood group system. [3]

b) Rh blood group system. [3]

c) What is Hardy Weinberg principle? [4]

Question Number : 3 Question Id : 32718725375 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 10

Compare in a tabulated form the aerobic and anaerobic systems of generation of energy in the human body. [10]

Question Number : 4 Question Id : 32718725376 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 mechanisms of humoral and cellular rejection after a solid organ transplant. [5+5]

Question Number : 5 Question Id : 32718725377 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 immunological mechanisms underlying neonatal alloimmune thrombocytopenia and post transfusion purpura. [5+5]

Question Number : 6 Question Id : 32718725378 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 10

Elaborate the development and characteristics of antibodies to the ABO blood group system. Describe their clinical significance? [(4+3)+3]

Question Number : 7 Question Id : 32718725379 Question Type : SUBJECTIVE Consider As

Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 10

Which formed blood elements express HLA antigens, and what is their clinical relevance? [3+7]

Question Number : 8 Question Id : 32718725380 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 scenarios where randomized controlled trials are not feasible? Describe 3 kinds of studies that can be designed in such scenarios. [4+6]

Question Number : 9 Question Id : 32718725381 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 strategies for optimal inventory management of blood components at a blood centre. [10]

Question Number : 10 Question Id : 32718725382 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 general guidelines for patient blood management (PBM). How will you apply PBM in a pregnant female with severe anaemia in the 1st trimester? [6+4]