National Board of Examinations

Question Paper Name :	DNB Immunohematology and Blood Transfusion Paper1
Subject 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 :	3271871961
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 :	3271871964
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 :	3271871968
Question Shuffling Allowed :	No
Is Section Default? :	null

Question Number : 1 Question Id : 32718730464 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) Evolution of haemoglobin from the foetus to adult. [5]

b) Compensatory changes seen in haemoglobin in patients with sickle cell disease. [5]

Question Number : 2 Question Id : 32718730465 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 with examples the Bio-statistical methods used to determine:

a) Correlation. [5]

b) Association. [5]

Question Number : 3 Question Id : 32718730466 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 a note on Iron deficiency anaemia with respect to:

a) Aetiopathogenesis. [4]

b) Laboratory diagnosis. [3]

c) Management. [3]

Question Number : 4 Question Id : 32718730467 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 Immunoglobulins under the headings:

a) Types. [5]

b) Distribution. [2]

c) Clinical relevance. [3]

Question Number : 5 Question Id : 32718730468 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 Rh Blood Group System under the headings:

a) Inheritance. [2]

b) Variants. [2]

c) Types of anti-sera. [3]

d) Laboratory testing in donors and patients. [3]

Question Number : 6 Question Id : 32718730469 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 the role of the following in transfusion reactions:

a) Damage-associated molecular patterns (DAMPS). [2]

b) Biologic Response Modifiers. [2]

c) Immunoglobulins. [3]

d) White Blood cells. [3]

Question Number : 7 Question Id : 32718730470 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 following using diagrams:

a) Normal Thromboelastogram (TEG). [2]

b) Changes seen in hyperfibrinolysis. [2]

c) Changes seen in Haemophilia. [3]

d) Changes seen in Thrombocytopenia. [3]

Question Number : 8 Question Id : 32718730471 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 the Human Platelet Antigen Systems under the headings:

a) Classification and site on platelet surface proteins. [4]

b) Role in fetal and neonatal alloimmune thrombocytopenia. [2]

c) Role in post transfusion purpura. [2]

d) Role in transfusion refractoriness. [2]

Question Number : 9 Question Id : 32718730472 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) Natural history of Hepatitis B. [4]

b) Clinical relevance of the serological markers of Hepatitis B infection. [4]

c) Deferral of prospective donors with a history of jaundice. [2]

Question Number : 10 Question Id : 32718730473 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 MNS blood group system and the clinical significance of antibodies to antigens of this system. [7+3]