

National Board of Examinations

Question Paper Name :	DNB Immunohematology and Blood Transfusion Paper3
Subject Name :	DNB Immunohematology and Blood Transfusion Paper3
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Share Answer Key With Delivery Engine :	No
Actual Answer Key :	No

DNB Immunohematology and Blood Transfusion Paper3

Group Number :	1
Group Id :	3271871446
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 Paper3

Section Id :	3271871449
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 :	3271871453
Question Shuffling Allowed :	No
Is Section Default? :	null

Question Number : 1 Question Id : 32718713542 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 various pharmacological measures to reduce blood/blood component transfusion. [10]

Question Number : 2 Question Id : 32718713543 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 10

- Define massive transfusion. [2]
- Enumerate complications of massive transfusion. [3]

c) Describe massive transfusion protocol to be followed in trauma patients. [5]

Question Number : 3 Question Id : 32718713544 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) Discuss pathophysiology of haemolytic disease of foetus and new-born (HDFN). [5]
- b) Explain differences between ABO HDFN and Rh HDFN. [3]
- c) How will you prepare a blood unit for intrauterine transfusion? [2]

Question Number : 4 Question Id : 32718713545 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 note on leukoreduction in relation to the following:

- a) Definition. [2]
- b) Methods of leukoreduction. [4]
- c) Clinical indication for leukoreduction. [4]

Question Number : 5 Question Id : 32718713546 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) Discuss sources and collection of haematopoietic stem cells. [5]
- b) Describe processing and preservation of haematopoietic stem cells. [5]

Question Number : 6 Question Id : 32718713547 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) Discuss pathophysiology of anaemia of prematurity. [5]
- b) Describe indications for red cell transfusion in neonates. [5]

Question Number : 7 Question Id : 32718713548 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) Write note on human leucocyte antigens. [5]
- b) Discuss role of human leucocyte antigens in transplantation. [5]

Question Number : 8 Question Id : 32718713549 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 note on thrombo-elastography (TEG) in relation to:

- a) Principle. [2]
- b) TEG graph in hypocoagulable state of disseminated intravascular hemolysis (DIC). [3]
- c) Application of TEG in transfusion medicine. [5]

Question Number : 9 Question Id : 32718713550 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 direct antiglobulin test (DAT) under heading of:

- a) Principle. [2]
- b) Causes of positive DAT. [2]
- c) Methods for DAT with their sensitivities. [3]
- d) Causes for false positive and false negative test results. [3]

Question Number : 10 Question Id : 32718713551 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) Pathophysiology of fetal neonatal alloimmune thrombocytopenia. [5]
- b) Management of fetal neonatal alloimmune thrombocytopenia. [5]