

# National Board of Examinations

**Question Paper Name :** DNB Immunohematology and Blood Transfusion Paper3  
**Subject Name :** DNB Immunohematology and Blood Transfusion Paper3  
**Duration :** 180  
**Total Marks :** 100  
**Display Marks:** No

**Maximum Instruction Time :** 0

**Question Number : 1 Question Id : 32718733394 Consider As Subjective : Yes**

**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 serological course of hepatitis B and hepatitis C infection. Discuss the implications of these infections on blood safety. [6+4]

**Question Number : 2 Question Id : 32718733395 Consider As Subjective : Yes**

Discuss antenatal red cell antibody screening and its implications in clinical practice. [6+4]

**Question Number : 3 Question Id : 32718733396 Consider As Subjective : Yes**

Discuss transfusion support in hemopoietic stem cell transplantation and its challenges. [6+4]

**Question Number : 4 Question Id : 32718733397 Consider As Subjective : Yes**

What are the clinical indications for therapeutic plasma exchange? What are the parameters to be monitored during and after the procedure? What are the methods of assessing response to the procedure? [4+3+3]

**Question Number : 5 Question Id : 32718733398 Consider As Subjective : Yes**

Define quality assurance. Discuss the quality assurance measures to be implemented in the Transfusion Transmitted Infections (TTI) testing laboratory. [2+8]

**Question Number : 6 Question Id : 32718733399 Consider As Subjective : Yes**

Describe erythromagnetic technique (EMT) for blood group serology testing. What are the advantages and limitations of this technique? [4+(3+3)]

**Question Number : 7 Question Id : 32718733400 Consider As Subjective : Yes**

Discuss blood substitutes. Write a note on recent advances in blood substitutes. [7+3]

**Question Number : 8 Question Id : 32718733401 Consider As Subjective : Yes**

Describe the composition of a Hospital Transfusion Committee (HTC). Discuss its role in hospital transfusion practices. [4+6]

**Question Number : 9 Question Id : 32718733402 Consider As Subjective : Yes**

Discuss the role of transfusion medicine specialist in cellular therapies. [10]

**Question Number : 10 Question Id : 32718733403 Consider As Subjective : Yes**

Compare and contrast granulocyte concentrates prepared by buffy coat pooling and granulocytapheresis. What are the clinical indications for the transfusion of granulocyte concentrate? List the adverse effects of granulocyte concentrate transfusion. [6+2+2]