

National Board of Examinations

Question Paper Name : DNB Immunohematology and Blood Transfusion Paper3
Subject Name : DNB Immunohematology and Blood Transfusion Paper3
Duration : 182
Total Marks : 100
Display Marks: No

Maximum Instruction Time : 0
Is Section Default? : No

Question Number : 1 Question Id : 32718744976 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. List the main indications for blood transfusion in neonates and mention the special precautions that must be taken when selecting blood for neonatal transfusion and various strategies to decrease donor exposure in neonatal transfusion. [10]

Question Number : 2 Question Id : 32718744977 Consider As Subjective : Yes

Define cryopreservation. Describe the methods, cryoprotective agents used and applications of cryopreservation in transfusion medicine. [6+4]

Question Number : 3 Question Id : 32718744978 Consider As Subjective : Yes

Define hematopoietic stem cell transplantation (HSCT). Mention advantages and disadvantages of various sources of HSCT for therapeutic use. [4+6]

Question Number : 4 Question Id : 32718744979 Consider As Subjective : Yes

Describe the principle of flow cytometry and discuss its applications in hematopoietic stem cell transplantation. [10]

Question Number : 5 Question Id : 32718744980 Consider As Subjective : Yes

Define the Maximum Surgical Blood Ordering Schedule (MSBOS). Discuss its principle, advantages and role in effective blood inventory management in transfusion medicine. [4+6]

Question Number : 6 Question Id : 32718744981 Consider As Subjective : Yes

Discuss the pathogenesis and laboratory diagnosis of drug induced auto immune hemolytic anemia. [10]

Question Number : 7 Question Id : 32718744982 Consider As Subjective : Yes

Discuss the different types of ABO mismatch peripheral blood stem cell transplant (PBSCT). Discuss its immunohematological work up and transfusion support in ABO mismatch PBSCT. [5+5]

Question Number : 8 Question Id : 32718744983 Consider As Subjective : Yes

Describe the pathophysiology of hemolytic disease of the fetus and newborn (HDFN). Compare between ABO and RhD types of HDFN. [5+5]

Question Number : 9 Question Id : 32718744984 Consider As Subjective : Yes

Discuss the role of HLA and granulocyte antigens in transfusion and transplantation. [10]

Question Number : 10 Question Id : 32718744985 Consider As Subjective : Yes

Define GVHD. Discuss the utility of donor lymphocyte infusion in hematopoietic stem cell transplant. [3+7]