

National Board of Examinations

Question Paper Name : DNB Immunoematology and Blood Transfusion Paper4
Subject Name : DNB Immunoematology and Blood Transfusion Paper4
Duration : 182
Total Marks : 100
Display Marks: No

Maximum Instruction Time : 0
Is Section Default? : No

Question Number : 1 Question Id : 32718745288 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. a) Validation and calibration in blood center operations. [5]
- b) ISO 15189:2022 and NABH accreditation requirements. [5]

Question Number : 2 Question Id : 32718745289 Consider As Subjective : Yes

Describe the concept of hemovigilance and its legal importance in ensuring transfusion safety. [10]

Question Number : 3 Question Id : 32718745290 Consider As Subjective : Yes

- a) Uses of next generation sequencing (NGS) in Transfusion Medicine. [5]
- b) Fluorescence assisted cell sorting (FACS). [5]

Question Number : 4 Question Id : 32718745291 Consider As Subjective : Yes

- a) Stem cell plasticity. [5]
- b) Induced pluripotent stem cells. [5]

Question Number : 5 Question Id : 32718745292 Consider As Subjective : Yes

Proteomics and its application in transfusion medicine. [10]

Question Number : 6 Question Id : 32718745293 Consider As Subjective : Yes

Discuss the role of the Hospital Transfusion Committee in promoting rational blood use and outline the key features of the Patient Blood Management (PBM) program, including component transfusion indications as per institutional guidelines. [5+5]

Question Number : 7 Question Id : 32718745294 Consider As Subjective : Yes

ISBT128 standards in blood center automation. [10]

Question Number : 8 Question Id : 32718745295 Consider As Subjective : Yes

CRISPR-Cas system in transfusion medicine. [10]

Question Number : 9 Question Id : 32718745296 Consider As Subjective : Yes

Describe indications and principle of extra corporeal photopheresis. Discuss its efficacy in the treatment of graft-versus-host disease. [5+5]

Question Number : 10 Question Id : 32718745297 Consider As Subjective : Yes

What is pegylated G-CSF? What are other pegylated products used in hematology? [5+5]