

National Board of Examinations

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| Question Paper Name : | DNB Immunohematology and Blood Transfusion Paper4 |
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| Creation Date : | 2022-12-26 16:39:15 |
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| Actual Answer Key : | No |

DNB Immunohematology and Blood Transfusion Paper4

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|--------------------------------------|------------|
| Group Number : | 1 |
| Group Id : | 3271871447 |
| 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 Paper4

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|-------------------------|------------|
| Section Id : | 3271871450 |
| Section Number : | 1 |

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|---|------------|
| 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 : | 3271871454 |
| Question Shuffling Allowed : | No |
| Is Section Default? : | null |

Question Number : 1 Question Id : 32718713552 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) Define quality assurance. [2]
- b) Describe steps to ensure quality of platelets. [8]

Question Number : 2 Question Id : 32718713553 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 pathogen reduction techniques. [5]
- b) Describe role of different technologies in pathogen reduction of various blood components. [5]

Question Number : 3 Question Id : 32718713554 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) Accreditation of Blood Banks. [3]
- b) Advantages of Accreditation. [3]
- c) Key performance indicators for Blood Bank services. [4]

Question Number : 4 Question Id : 32718713555 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) Define near miss event. [2]
- b) Discuss strategies to prevent near miss events in a blood centre. [8]

Question Number : 5 Question Id : 32718713556 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) Enumerate essential documents to be maintained as per Drug and Cosmetic Rules, 1945 and amendments thereafter. [3]
- b) Design Standard Operating Procedure (SOP) for blood collection from blood donors. [7]

Question Number : 6 Question Id : 32718713557 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) Define metabolomics. [3]
- b) Discuss role of metabolomics in improving red cell and platelet storage lesions. [7]

Question Number : 7 Question Id : 32718713558 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) Define patient blood management (PBM) and discuss pillars of PBM. [4]
- b) Discuss strategies for patient blood management in peri-operative testing. [6]

Question Number : 8 Question Id : 32718713559 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) Define cellular immunotherapy and describe its types. [4]
- b) Discuss clinical application of T-cell immunotherapy. [6]

Question Number : 9 Question Id : 32718713560 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) Principles of new technologies available for automation in blood grouping. [6]
- b) Importance of automation in transfusion service. [4]

Question Number : 10 Question Id : 32718713561 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 management of non-conforming events under following headings:

- a) Root cause analysis. [2]
- b) Statistical tools used for root cause analysis. [4]
- c) Preventive and corrective actions for quality improvement. [4]