

National Board of Examinations

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| Question Paper Name : | DrNB Neonatology Paper3 |
| Subject Name : | DrNB Neonatology Paper3 |
| Creation Date : | 2022-06-25 17:21:39 |
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| Actual Answer Key : | No |

DrNB Neonatology Paper3

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| Group Number : | 1 |
| Group Id : | 3271871129 |
| Group Maximum Duration : | 0 |
| Group Minimum Duration : | 180 |
| Show Attended Group? : | No |
| Edit Attended Group? : | No |
| Break time : | 0 |
| Group Marks : | 100 |
| Is this Group for Examiner? : | No |
| Examiner permission : | Cant View |
| Show Progress Bar? : | No |

DrNB Neonatology Paper3

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| Section Id : | 3271871132 |
| 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 : | 3271871136 |
| Question Shuffling Allowed : | No |

Question Number : 1 Question Id : 32718710342 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

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. Enumerate levels of neonatal care and describe the requirements for setting up of NBSU. What are the expected services to be provided at this level of facility? [(3+4)+3]

Question Number : 2 Question Id : 32718710343 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Discuss therapeutic hypothermia as a modality for management of perinatal asphyxia. Enumerate poor prognostic factors in a case of hypoxic ischemic encephalopathy. [5+5]

Question Number : 3 Question Id : 32718710344 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction

Time : 0

Briefly discuss the pathophysiology of septic shock. Discuss choice of inotrope in a case of septic shock. [5+5]

Question Number : 4 Question Id : 32718710345 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

What are the thresholds for PRBC transfusion in neonates? Discuss the evidence related to restrictive versus liberal transfusion guidelines. What are the preventive strategies to reduce the need of transfusion in NICU? [2+4+4]

Question Number : 5 Question Id : 32718710346 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

- a) Caffeine therapy. [3]
- b) Fluorescent in situ hybridization. [2]
- c) Chromosomal microarray. [3]
- d) Clinical Exome sequencing. [2]

Question Number : 6 Question Id : 32718710347 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

- a) Cochlear implant. [5]
- b) Evidence for antenatal steroid in late preterm. [5]

Question Number : 7 Question Id : 32718710348 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

- a) Machine learning and deep learning. [4]
- b) Discuss in brief regarding the various available machine learning models for predicting neonatal sepsis and neonatal mortality. [6]

Question Number : 8 Question Id : 32718710349 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Discuss setting up of DEIC services. Write in brief regarding NIDCAP and COPE program. [5+5]

Question Number : 9 Question Id : 32718710350 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

a) LaQshay program. [5]

b) Special Newborn Care Unit. [5]

Question Number : 10 Question Id : 32718710351 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Enumerate the types of surfactant available. Describe the methods of surfactant administration.

Discuss evidence in favour of minimally invasive surfactant administration. [4+3+3]