National Board of Examinations

Question Paper Name :DrNB Neonatology Paper1Subject Name :DrNB Neonatology Paper1Creation Date :2023-10-15 14:11:59Duration :180Share Answer Key With Delivery Engine :NoActual Answer Key :No

DrNB Neonatology Paper1

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Group Id: 327187768 **Group Maximum Duration:** 0 180 **Group Minimum Duration:** No **Show Attended Group?: Edit Attended Group?:** No **Group Marks:** 100 Is this Group for Examiner?: No **Examiner permission: Cant View Show Progress Bar?:** No

Group Number:

DrNB Neonatology Paper1

Section Id: 327187771

Section Number: 1

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: 327187775

Question Shuffling Allowed: No

Is Section Default?: null

Question Number: 1 Question Id: 32718721073 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) What is the target range of SpO₂ as per NRP algorithm 2020? [2]
- b) What should be the initial FiO_2 for the resuscitation in term and preterm neonates at different gestation? [2]
- c) Describe as to how resuscitation with 100% oxygen affects the neonatal outcome. [6]

Question Number: 2 Question Id: 32718721074 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) Describe components of critical appraisal checklist for diagnostic studies. [5]

b) Non parametric tests. [5]

Question Number: 3 Question Id: 32718721075 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 factors affecting gut microbiota and describe the risk factors for necrotising

enterocolitis. [5]

b) Critically analyse the evidence for or against therapeutic use of probiotics in the management of

necrotising enterocolitis. [5]

Question Number: 4 Question Id: 32718721076 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) Describe various biomarkers available for diagnosis of neonatal sepsis. [5]

b) Tabulate the advantages and disadvantages of each of the biomarker. [5]

Question Number: 5 Question Id: 32718721077 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) Describe components of verbal autopsy as per WHO death audit tool for neonatal death. [5]

b) Describe the pros and cons of SpO₂ screening for critical congenital heart disease. [5]

Question Number: 6 Question Id: 32718721078 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) Illustrate diagramatically the developmental handicaps of preterm brain. [4]

b) Describe clinical manifestations of insult to the preterm brain during the neonatal period and enumerate its long term consequences. [3+3]

Question Number: 7 Question Id: 32718721079 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 critical events and timelines during fetal cardiac development predisposing to structural congential heart defects. [5]
- b) Critically appraise the utility of Near Infrared Spectroscopy (NIRS) in Neonatology. [5]

Question Number: 8 Question Id: 32718721080 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 the different types of triggering devices used in neonatal mechanical ventilators and with pros and cons of each. [5]
- b) Describe the pulmonary grahics and critically analyse the utility of these in optimizing ventilatory settings. [5]

Question Number: 9 Question Id: 32718721081 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) Describe the infrastructure, human resource, equipment and capacity building required for operationalising Newborn Stabilisation Units (NBSU). [1+1+2+2]
- b) Enumerate the admission criteria in NBSU and discuss utility of NBSU in neonatal public health system. [1+3]

Question Number: 10 Question Id: 32718721082 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) Describe the ergonomics and role of human factors in neonatal resuscitation. [4]

b) Map the process flow of ILCOR neonatal group for reaching the 'Consensus on Science and

Treatment Recommendations'. [6]