

National Board of Examinations

Question Paper Name :	DrNB Neonatology Paper2
Subject Name :	DrNB Neonatology Paper2
Creation Date :	2023-10-15 14:13:45
Duration :	180
Share Answer Key With Delivery Engine :	No
Actual Answer Key :	No

DrNB Neonatology Paper2

Group Number :	1
Group Id :	327187769
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

DrNB Neonatology Paper2

Section Id :	327187772
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 :	327187776
Question Shuffling Allowed :	No
Is Section Default? :	null

Question Number : 1 Question Id : 3271876772 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 30-year-old primigravida is admitted in the antenatal ward with anticipated delivery at 26 weeks of gestation with estimated fetal weight of 780 grams:
- What antenatal measures should be taken for lung maturation and neuroprotection? [4]
 - Describe the steps of initial management in the NICU. [4]
 - Enumerate potential neonatal factors affecting neurodevelopment. [2]

Question Number : 2 Question Id : 3271876773 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 various evidence based antenatal, natal, delivery room and postnatal measures to be adopted to prevent bronchopulmonary dysplasia. [7]
- b) Describe the salient features of current classification of BPD. [3]

Question Number : 3 Question Id : 3271876774 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 10

Baby X born at 39 weeks of gestation by normal vaginal delivery with birth weight of 3100 grams, reports to the pediatric emergency on day five of life with sudden collapse, shock, cold and cyanosed peripheries. ABG revealed pH 7.1, PaO₂ 34 mmHg and PaCO₂ 67 mmHg, BE-21. Give three important causes of sudden onset collapse and outline approach to this infant. [3+7]

Question Number : 4 Question Id : 3271876775 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 bioactive components of mother's own milk. Critically analyse the impact of pasteurization on the components of human milk. [4+3]
- b) Discuss merits and demerits of standard versus targeted fortification of human milk. [3]

Question Number : 5 Question Id : 3271876776 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 organisational aspects of DEIC (District early intervention centre) including infrastructure, equipment required, human resource and services provided. [10]

Question Number : 6 Question Id : 3271876777 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 1050 gram, 28 weeks of gestation age neonate, on mechanical ventilation admitted in NICU developed cold peripheries and low mean blood pressure on day four of life. Discuss the differential diagnosis and outline a diagnostic approach to shock in this neonate along with management. [3+4+3]

Question Number : 7 Question Id : 3271876778 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) Neonatal palliative care. [3]
- b) Early total enteral feeding. [3]
- c) Tools for early diagnosis of developmental delay. [2]
- d) Role of topical emollients in skin care. [2]

Question Number : 8 Question Id : 3271876779 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 a high risk neonate. [2]
- b) Enumerate the red flag signs at the time of discharge from NICU. [3]
- c) Describe a follow up plan for these high risk neonates. [5]

Question Number : 9 Question Id : 3271876780 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 the rationale for and evidence based recommendations for volume targeted ventilation in neonates. [5]
- b) Describe pressure passive cerebral blood flow in preterm neonates. [5]

Question Number : 10 Question Id : 3271876781 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 32 week, 780 grams birthweight, IUGR baby with antenatally diagnosed reversed end diastolic blood flow in the umbilical artery with an APGAR score of 7 and 8 at one and five minutes respectively is stable on CPAP after surfactant administration.

- a) Discuss starting strategy for Total Parenteral Nutrition in this baby. What is aggressive TPN? [4]
- b) When should one start enteral feeds in this baby and how should one advance the volume? [3]
- c) What is the essential monitoring to be done in this baby as regards nutrition? [3]