

National Board of Examinations

Question Paper Name :	DrNB PAEDIATRIC CRITICAL CARE Paper1
Subject Name :	DrNB PAEDIATRIC CRITICAL CARE Paper1
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Actual Answer Key :	No

DrNB PAEDIATRIC CRITICAL CARE Paper1

Group Number :	1
Group Id :	3271872889
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 PAEDIATRIC CRITICAL CARE Paper1

Section Id :	3271872892
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 :	3271872896
Question Shuffling Allowed :	No
Is Section Default? :	null

Question Number : 1 Question Id : 32718730174 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. Acute Liver Failure:

- a) Pathophysiology of Acute Liver Failure. [6]
- b) Investigations. [4]

Question Number : 2 Question Id : 32718730175 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 3-year-old child was rescued from the building under fire. He suffered some inhalational injuries:

- a) Mechanism of inhalational injuries. [6]

b) Investigations to manage this condition. [4]

Question Number : 3 Question Id : 32718730176 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 absolute and relative humidity. [4]

b) What are the methods of humidification of breathing systems? [6]

Question Number : 4 Question Id : 32718730177 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) Pathogenesis of sepsis associated AKI. [5]

b) Renal risk stratification approach to prevent AKI in PICU. [5]

Question Number : 5 Question Id : 32718730178 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) What is hemodynamics-directed cardiopulmonary resuscitation? [5]

b) How is this different from protocolized CPR? [5]

Question Number : 6 Question Id : 32718730179 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 10-year-old girl having a weight of 80 kg is electively posted for an abdominal surgery under general anesthesia. Enlist the anatomical and pathophysiological challenges anticipated:

a) During ventilation of this child. [5]

b) Outline an airway and ventilation management algorithm for this girl. [5]

Question Number : 7 Question Id : 32718730180 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 the current practice, evidence and controversies in 'Targeted Temperature Management' in pediatric neurocritical care. [10]

Question Number : 8 Question Id : 32718730181 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 10

Your unit has recently purchased a High Frequency Oscillatory Ventilator:

- a) Principle and mechanism of functioning of HFOV. [4]
- b) Current evidence of its use in PICU. [4]
- c) What is Fc? [2]

Question Number : 9 Question Id : 32718730182 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) Tools for quality improvement (QI). [5]
- b) Event driven trial design. [5]

Question Number : 10 Question Id : 32718730183 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 10

Noninvasive respiratory monitoring and assessment of gas exchange. [10]