

National Board of Examinations

Question Paper Name :	DrNB PAEDIATRIC CRITICAL CARE Paper2
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DrNB PAEDIATRIC CRITICAL CARE Paper2

Group Number :	1
Group Id :	3271872628
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
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DrNB PAEDIATRIC CRITICAL CARE Paper2

Section Id :	3271872631
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 :	3271872635
Question Shuffling Allowed :	No
Is Section Default? :	null

Question Number : 1 Question Id : 32718726964 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 4-week-old infant weighing 2.5 kg is admitted with severe dehydration and obtundation. You are asked to assist in his resuscitation and preparation for surgery for pyloric stenosis:

- What is the best management? [2]
- Provide a plan for fluid and electrolyte therapy. [5]
- What diagnostic tests are useful? [3]

Question Number : 2 Question Id : 32718726965 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 4-year-old child is admitted after swallowing toilet cleaner. Describe clinical signs and approach to management of this patient? Discuss long term complications. [2+5+3]

Question Number : 3 Question Id : 32718726966 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 female remains shocked despite vigorous fluid therapy after a motor crash. List the possible causes of the shock and how you would diagnose and treat each. [5+5]

Question Number : 4 Question Id : 32718726967 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 briefly approach to evaluation and management of a 2-year-old previously well child with fever and respiratory distress of 2 days duration. [5+5]

Question Number : 5 Question Id : 32718726968 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 10

Compare uses and benefits/problems of road and air transport of a critically ill patient. List the essential characteristics of a ventilator for use in the helicopter transport of a critically ill patient. [5+5]

Question Number : 6 Question Id : 32718726969 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 7-year-old child is admitted to the PICU having suffered a fall directly onto his occiput from a height of 5 meters. His GCS on presentation to the hospital was E1M3V2. In the emergency he was

intubated and ventilation was initiated prior to neuroimaging. The Scan revealed cerebral edema and multiple punctate hemorrhages throughout the brain:

- a) What additional history would you seek from parents? [1]
- b) What additional investigations would you order and why? [2]
- c) Describe your protocol for management of raised ICP in this patient. [5]
- d) In first 24 hours what would you tell the family regarding this patient's prognosis? [2]

Question Number : 7 Question Id : 32718726970 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 10

What are the important elements of a Medical emergency Team (MET) program? How may a MET improve in-hospital morbidity and mortality in children? [4+6]

Question Number : 8 Question Id : 32718726971 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 14-year-old male victim of a bomb blast is brought to you by police with 35% grade 3 burns involving lower abdomen, back, perineum and bilateral lower limbs. Discuss the management plan. [10]

Question Number : 9 Question Id : 32718726972 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 10

Following cardiopulmonary resuscitation for severe asthma in a 10-year-old child the following blood gas results are obtained pH - 6.65, PaCO₂ - 212 mmHg, PaO₂ - 90 mmHg, HCO₃⁻ - 23 meq/l, Lactate - 12 mmol/l (FiO₂ - 50%). Explain these results and outline what action you will take. Describe the management in detail. [3+7]

Question Number : 10 Question Id : 32718726973 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) A 15-year-old previously fit athlete collapses in Ventricular fibrillation (VF) at the completion of a sprint race. He is successfully resuscitated. List the possible causes and how they can be managed.

[5]

b) ECG changes in potassium abnormalities. [5]