

National Board of Examinations

Question Paper Name :	DrNB PAEDIATRIC CRITICAL CARE Paper3
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DrNB PAEDIATRIC CRITICAL CARE Paper3

Group Number :	1
Group Id :	3271872630
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 Paper3

Section Id :	3271872633
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 :	3271872637
Question Shuffling Allowed :	No
Is Section Default? :	null

Question Number : 1 Question Id : 32718726984 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. Enumerate the indications for extracorporeal life support therapy. Discuss the critical care management of children during extracorporeal support. [3+7]

Question Number : 2 Question Id : 32718726985 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 would make you suspect systemic candidiasis in a critically ill PICU patient? How would you confirm the diagnosis? Outline your management once the diagnosis is confirmed. [3+3+4]

Question Number : 3 Question Id : 32718726986 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 10

Define patient ventilator asynchrony. Discuss its evaluation and management. [3+7]

Question Number : 4 Question Id : 32718726987 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 6-year-old girl develops respiratory distress post extubation following a neurosurgical procedure. She does not respond to nebulized adrenaline and intravenous dexamethasone. She deteriorates rapidly and a decision is made to secure her airway. It is difficult to support her breathing with bag and mask ventilation. Laryngoscopy is performed and it is impossible to visualize her vocal cords and blind attempts at intubation are unsuccessful. Outline your approach to this problem. [10]

Question Number : 5 Question Id : 32718726988 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 with global developmental delay is admitted to your PICU for airway management. He was nasally intubated for evacuation of a large dental abscess, which had caused airway compromise.

- a) Within 24 hours he has become febrile and has developed hypotension and bilateral pleural effusions. Describe your management of these problems. [5]
- b) Describe how would you assess him for extubation. [5]

Question Number : 6 Question Id : 32718726989 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 steps can be taken to maximize intensive care unit treatment in a public health emergency?
[10]

Question Number : 7 Question Id : 32718726990 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 10

Critically evaluate the role of “immunonutrition” in the management of a critically ill patient. [10]

Question Number : 8 Question Id : 32718726991 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 10

Outline the factors you would consider in making a cost-benefit analysis of introducing a new component of care into your Intensive care unit. [10]

Question Number : 9 Question Id : 32718726992 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 9-year-old boy is admitted to the ICU for fecal peritonitis. He has developed multisystem organ failure over 2 days, requiring ventilator and inotropic support. He is oliguric, increasingly acidotic, uremic and has a rising serum creatinine.

a) List the likely mechanisms for this patient's renal failure. [3]

b) List the available dialytic therapies and their advantages and disadvantages. Which mode would you choose in this boy and how does it achieve solute clearance? [7]

Question Number : 10 Question Id : 32718726993 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 10

Outline the principles of illness severity scoring systems used in critically ill children, and using examples outline their relationship to clinical outcome. [10]