

National Board of Examinations

Question Paper Name :	DrNB PAEDIATRIC CRITICAL CARE Paper1
Subject Name :	DrNB PAEDIATRIC CRITICAL CARE Paper1
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DrNB PAEDIATRIC CRITICAL CARE Paper1

Group Number :	1
Group Id :	3271871265
Group Maximum Duration :	0
Group Minimum Duration :	180
Show Attended Group? :	No
Edit Attended Group? :	No
Break time :	0
Group Marks :	100
Is this Group for Examiner? :	No
Examiner permission :	Cant View
Show Progress Bar? :	No

DrNB PAEDIATRIC CRITICAL CARE Paper1

Section Id :	3271871268
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 :	3271871272
Question Shuffling Allowed :	No

Question Number : 1 Question Id : 32718711702 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

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

Microcirculation in Sepsis:

- Pathophysiology of microcirculation in sepsis. [5]
- Investigations required to detect changes in microcirculation. [5]

Question Number : 2 Question Id : 32718711703 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Raised Intra Cranial Pressure:

- Monro-Kellie Doctrine. [3]
- Autoregulation [7]

Question Number : 3 Question Id : 32718711704 Question Type : SUBJECTIVE Consider As

Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Gut microbiome:

- a) Normal gut flora. [3]
- b) Factors affecting changes in gut flora in critical illness. [7]

Question Number : 4 Question Id : 32718711705 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Multisystem Inflammatory Syndrome in Children (MIS-C):

- a) Definition as per World Health Organization (WHO). [3]
- b) Phenotypes of MIS-C. [3]
- c) Pathophysiology of MIS-C. [4]

Question Number : 5 Question Id : 32718711706 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Mitochondrial Dynamics and mitophagy:

- a) Mechanism of mitochondrial Dynamics. [5]
- b) Role of mitophagy in ischemic/reperfusion injury. [5]

Question Number : 6 Question Id : 32718711707 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

- a) Propensity Score Matching. [5]
- b) Event driven trial design. [5]

Question Number : 7 Question Id : 32718711708 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Pharmacology of:

- a) Levosimendan [5]

b) Dexmedetomidine [5]

Question Number : 8 Question Id : 32718711709 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Principle of:

a) Pulse oximetry. [5]

b) Peritoneal dialysis. [5]

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Question Number : 9 Question Id : 32718711710 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Tele-PICU:

a) Benefits of Tele-PICU. [3]

b) How will you set up a Tele-PICU with other smaller PICU's? [7]

Question Number : 10 Question Id : 32718711711 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

A school bus accident has occurred in your city. The administration has asked you to be prepared:

a) Steps of Preparation for mass causality. [4]

b) Role of Triage in Emergency. [6]