National Board of Examinations

Question Paper Name :	DrNB PAEDIATRIC CRITICAL CARE Paper
Subject Name :	DrNB PAEDIATRIC CRITICAL CARE Paper
Creation Date :	2023-10-15 14:11:41
Duration :	180
Share Answer Key With Delivery Engine :	No
Actual Answer Key :	No

DrNB PAEDIATRIC CRITICAL CARE Paper1

Group Number :	1
Group Id:	3271872107
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: 3271872110
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: 3271872114

Question Shuffling Allowed: No

Is Section Default?: null

Question Number: 1 Question Id: 32718721243 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. Discuss the pathophysiology of ischemia-reperfusion injury. Enumerate various biomarkers of endothelial activation. [6+4]

Question Number: 2 Question Id: 32718721244 Question Type: SUBJECTIVE Consider As

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

Time: 0

Correct Marks: 10

Briefly outline why antibodies against TNF alpha have not proved efficacious in controlled trials in the management of human septic shock. [10]

Question Number: 3 Question Id: 32718721245 Question Type: SUBJECTIVE Consider As

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

Time: 0

Correct Marks: 10

Briefly outline the gross anatomy observed when doing a general bronchoscopy in an intubated patient. Sketches may help to illustrate. [10]

Question Number: 4 Question Id: 32718721246 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 and contrast the roles of parametric and non-parametric tests in analyzing data, including examples of types of data and appropriate tests. [10]

Question Number: 5 Question Id: 32718721247 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 and contrast the pharmacology and pharmakokinetics of ketamine, fentanyl and dexmedetomidine when used for analgesia in the critically ill. [4+3+3]

Question Number: 6 Question Id: 32718721248 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 approach to evaluate the etiology of metabolic acidosis in the critically ill child. Discuss approach to management of metabolic acidosis of various etiologies. [6+4]

Question Number: 7 Question Id: 32718721249 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 is a Standardized Mortality Ratio? What are the limitations of using this ratio to compare the performance of Intensive Care Units? [4+6]

Question Number: 8 Question Id: 32718721250 Question Type: SUBJECTIVE Consider As

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

Time: 0

Correct Marks: 10

Draw coagulation cascade and discuss the crosstalk between coagulation and inflammation. [4+6]

Question Number: 9 Question Id: 32718721251 Question Type: SUBJECTIVE Consider As

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

Time: 0

Correct Marks: 10

Describe the development of microbiome in children. Discuss the known and potential clinical consequences of Intensive Care Unit Dysbiosis. [4+6]

Question Number: 10 Question Id: 32718721252 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 effects of positive pressure ventilation on circulation. Draw graphs/diagrams where necessary. [10]