

National Board of Examinations

Question Paper Name :	DrNB CRITICAL CARE MEDICINE Paper1
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DrNB CRITICAL CARE MEDICINE Paper1

Group Number :	1
Group Id :	3271872762
Group Maximum Duration :	0
Group Minimum Duration :	180
Show Attended Group? :	No
Edit Attended Group? :	No
Break time :	0
Group Marks :	100

DrNB CRITICAL CARE MEDICINE Paper1

Section Id :	3271872765
Section Number :	1
Section type :	Offline
Mandatory or Optional :	Mandatory
Number of Questions :	10
Number of Questions to be attempted :	10
Section Marks :	100
Maximum Instruction Time :	0
Sub-Section Number :	1
Sub-Section Id :	3271872769
Question Shuffling Allowed :	No

Question Number : 1 Question Id : 32718736574 Question Type : SUBJECTIVE Consider As Subjective : Yes

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) What is AKI as per KDIGO guidelines? [2]
- b) Describe the different types of "Renal Replacement Therapies" (RRTs) administered in the ICU. [5]
- c) Enumerate the components of "Acute Kidney Injury Care Bundle" (AKI-CB). [3]

Question Number : 2 Question Id : 32718736575 Question Type : SUBJECTIVE Consider As Subjective : Yes

Correct Marks : 10

- a) What is plasmapheresis and therapeutic plasma exchange? [2+2]
- b) What are the differences between Centrifugal Vs Membranous type of plasma exchange machines. [2]
- c) Describe the various categories of indications for plasmapheresis. [4]

Question Number : 3 Question Id : 32718736576 Question Type : SUBJECTIVE Consider As Subjective : Yes

Correct Marks : 10

- a) Describe the role of HFNC (high-flow nasal cannula) in critical care units, along with utility of "ROX" Index (Respiratory rate Oxygenation Index). [6+2]
- b) What is "Helmet-NIV" (non-invasive ventilation)? [2]

Question Number : 4 Question Id : 32718736577 Question Type : SUBJECTIVE Consider As Subjective : Yes

Correct Marks : 10

- a) Enumerate the salient points of ICU designing and planning in limited-resource settings. [5]
- b) "Fire Safety" in ICU. [5]

Question Number : 5 Question Id : 32718736578 Question Type : SUBJECTIVE Consider As Subjective : Yes

Correct Marks : 10

- a) What is the difference between standard deviation and standard error? [5]
- b) Describe the two common statistical methods to assess associations between two independent categorical variables? [5]

Question Number : 6 Question Id : 32718736579 Question Type : SUBJECTIVE Consider As Subjective : Yes

Correct Marks : 10

Discuss the "Forest Plot" and "Funnel Plot" in relation to meta-analysis. [5+5]

Question Number : 7 Question Id : 32718736580 Question Type : SUBJECTIVE Consider As Subjective : Yes

Correct Marks : 10

- a) What are the different types of cardiomyopathies encountered in ICU and the enlist their management principles? [3+4]
- b) Levosimendan. [3]

Question Number : 8 Question Id : 32718736581 Question Type : SUBJECTIVE Consider As Subjective : Yes

Correct Marks : 10

- a) Describe the standard "quality indicators" used in the ICUs. [6]
- b) Describe the measures to reduce "VAP (ventilator associated pneumonia) Rate" in the ICU. [4]

Question Number : 9 Question Id : 32718736582 Question Type : SUBJECTIVE Consider As Subjective : Yes

Correct Marks : 10

- a) Discuss the common drugs used for sedation and analgesia in ICU patients. [6]
- b) Describe any two scoring systems used for titration of such agents in critically ill patients. [4]

Question Number : 10 Question Id : 32718736583 Question Type : SUBJECTIVE Consider As Subjective : Yes

Correct Marks : 10

- a) What are the principles of achieving glycemic control in different categories of critically-ill ICU patients? [6]
- b) Describe the pharmacology and adverse effects of SGLT-2 (sodium-glucose-cotransporter) inhibitors as hypoglycemic agents. [2+2]