

National Board of Examinations

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

Group Number :	1
Group Id :	3271872764
Group Maximum Duration :	0
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DrNB CRITICAL CARE MEDICINE Paper3

Section Id :	3271872767
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 :	3271872771
Question Shuffling Allowed :	No

Question Number : 1 Question Id : 32718728924 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 antibiotic stewardship? [3]
- b) Describe any four mechanisms of development of antibiotic resistance among Gram Negative bacteria in ICU. [4]
- c) What is the role of "Persister cells" in emergence of antibiotic resistance in Gram Positive bacteria? [3]

Question Number : 2 Question Id : 32718728925 Question Type : SUBJECTIVE Consider As Subjective : Yes

Correct Marks : 10

- a) What are the different modalities of ECMO (Extra-Corporeal Membrane Oxygenation) used in critically ill patients? [4]
- b) Discuss the role and principles of extra-corporeal therapies in poisoning patients in ICU. [6]

Question Number : 3 Question Id : 32718728926 Question Type : SUBJECTIVE Consider As Subjective : Yes

Correct Marks : 10

- a) Discuss the principles of Damage Control Resuscitation. [4]
- b) What is lethal diamond in trauma victim? [2]
- c) Steps of massive transfusion protocol (MTP) utilized in adult poly-trauma victims in ER/ICU. [2]
- d) "REBOA" technique used in massive trauma. [2]

Question Number : 4 Question Id : 32718728927 Question Type : SUBJECTIVE Consider As Subjective : Yes

Correct Marks : 10

- a) Discuss the principles and waveform morphology of Transcranial Doppler Ultrasound (TCD) in neurocritical care. [5]
- b) Describe the critical care management of raised intra-cranial pressure in traumatic brain injury (TBI) patients in ICU (Tier Approach). [5]

Question Number : 5 Question Id : 32718728928 Question Type : SUBJECTIVE Consider As Subjective : Yes

Correct Marks : 10

- a) What are the various types of “ventilator-induced lung injury” (VILI) in patients on prolonged invasive mechanical ventilation? [5]
b) Discuss the concepts of “Driving Pressure” and “Mechanical Power” in relation to ventilatory management of ARDS patient in ICU. [3+2]

Question Number : 6 Question Id : 32718728929 Question Type : SUBJECTIVE Consider As Subjective : Yes

Correct Marks : 10

Describe the “RUSH” (Rapid ultrasound in shock) and the “FALLS” (Fluid administration limited by lung sonography) protocols for the bedside ultrasonographic evaluation of a patient of SHOCK in the ICU. [5+5]

Question Number : 7 Question Id : 32718728930 Question Type : SUBJECTIVE Consider As Subjective : Yes

Correct Marks : 10

- a) Describe the critical care management of a “brain-dead organ donor”. [5]
b) Discuss the current status of “Do Not Resuscitate” orders (DNR) for ICU patients in India. [5]

Question Number : 8 Question Id : 32718728931 Question Type : SUBJECTIVE Consider As Subjective : Yes

Correct Marks : 10

- a) Enumerate the broad principles of medical ethics in critical care. [6]
b) Describe the “SPIKES” approach to communication in ICU. [4]

Question Number : 9 Question Id : 32718728932 Question Type : SUBJECTIVE Consider As Subjective : Yes

Correct Marks : 10

- a) What is “Frailty”? [2]
b) Describe the critical care concerns of managing an elderly patient admitted in your ICU following a fall at home (Geriatric Critical Care). [8]

Question Number : 10 Question Id : 32718728933 Question Type : SUBJECTIVE Consider As Subjective : Yes

Correct Marks : 10

Describe the pathophysiology, grading and management (evidence-based) of hepatic encephalopathy in a case of suspected acute liver failure in the ICU. [3+3+4]