

National Board of Examinations

Question Paper Name :	DrNB Cardiac Anaesthesia Paper3
Subject Name :	DrNB Cardiac Anaesthesia Paper3
Creation Date :	2024-05-17 19:21:54
Duration :	180
Share Answer Key With Delivery Engine :	No
Actual Answer Key :	No

DrNB Cardiac Anaesthesia Paper3

Group Number :	1
Group Id :	3271872069
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 Cardiac Anaesthesia Paper3

Section Id :	3271872072
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 :	3271872076
Question Shuffling Allowed :	No
Is Section Default? :	null

Question Number : 1 Question Id : 32718720402 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. a) Draw a self-explanatory diagram of the pressure-volume loop in a patient suffering from cardiogenic shock with myocardial infarction. [4]
- b) How does pressure-volume loop appear if a cardiogenic shock patient is supported with (i) IABP and (ii) Left ventricular assist device (LVAD) separately (only diagram). [3+3]

Question Number : 2 Question Id : 32718720403 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 role of simulator in cardiac anaesthesia and cardiac critical care setting. [10]

Question Number : 3 Question Id : 32718720404 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 10

In relation to Levosimendan in cardiac surgical practice:

- a) Describe mechanism of action of Levosimendan. [2]
- b) Its indication, advantages and adverse effects in cardiac surgical patients. [2+2+2]
- c) What is the current evidence for use of Levosimendan in clinical practice? [2]

Question Number : 4 Question Id : 32718720405 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) Enumerate direct thrombin inhibitors. [3]
- b) Describe in brief Bivalirudin. [7]

Question Number : 5 Question Id : 32718720407 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 10

Related to assessment of platelet function:

- a) What is Sonoclot? What does R1, R2 and R3 depict in a normal tracing? [2+3]
- b) Describe ROTEM. [5]

Question Number : 6 Question Id : 32718720408 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 perioperative anaesthetic management of a gravid patient in second trimester with mitral stenosis for mitral valve replacement. [10]

Question Number : 7 Question Id : 32718720409 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 10

Enumerate the role of transesophageal echocardiography in:

- a) TAVI. [5]
- b) Placement of LVAD (Heartmate II) in a patient with left ventricular dysfunction. [5]

Question Number : 8 Question Id : 32718720410 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) What is meant by restrictive and liberal transfusion strategies? [5]
- b) Describe the current recommendations regarding transfusion practice during cardiac surgery. [5]

Question Number : 9 Question Id : 32718720411 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) What is leadless pacing in cardiac surgery? [5]
- b) What is the role of Mavacamten in HOCM? [5]

Question Number : 10 Question Id : 32718729188 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) Harlequin Syndrome. [5]
- b) Intra-aortic Balloon Pump. [5]