

National Board of Examinations

Question Paper Name :	DrNB Cardio Vascular and Thoracic Surgery Direct 6 years course Part 1 Paper2
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DrNB Cardio Vascular and Thoracic Surgery Direct 6 years course Part 1 Paper2

Group Number :	1
Group Id :	3271871182
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 Cardio Vascular and Thoracic Surgery Direct 6 years

course Part 1 Paper2

Section Id : 3271871185
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 : 3271871189
Question Shuffling Allowed : No

Question Number : 1 Question Id : 32718710872 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

1. a) Classify various inotropic drugs used in cardiac surgical unit. [4]
- b) Compare their effects and appropriate usage in tabular form. [4]
- c) Indication of calcium sensitizing agent. [2]

Question Number : 2 Question Id : 32718710873 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction

Time : 0

- a) History of IABP (intraaortic balloon pump). [4]
- b) What is the principle of IABP? [3]
- c) What are its contraindications? [3]

Question Number : 3 Question Id : 32718710874 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

- a) Define pulmonary arterial hypertension (PAH) and how is it classified based on its severity. [5]
- b) Define Heath-Edwards grade IV of PAH. [2]
- c) Classify drugs used to treat this condition. [3]

Question Number : 4 Question Id : 32718710875 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

- a) What is INR? Why is it preferred over the actual prothrombin time for monitoring the adequacy of oral anticoagulation? [5]
- b) How is the adequacy of heparinization and its neutralization monitored during open heart surgery? [5]

Question Number : 5 Question Id : 32718710876 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

- a) What are the major four types of hospital acquired infections in an ICU setting? Describe them in detail. [6]
- b) What are the preventive measures to be taken to avoid or minimize them? [4]

Question Number : 6 Question Id : 32718710877 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction

Time : 0

- a) Briefly discuss evolution of Oxygenators used in CPB. [5]
- b) Types of pump used in Cardiopulmonary bypass (CPB). [5]

Question Number : 7 Question Id : 32718710878 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

- a) What are the different ECG changes that occur in the process of evolution of myocardial infarction from the onset of angina in the leads oriented towards the affected side of the myocardium? [6]
- b) What is 'delta' wave in ECG? What is the congenital cardiac malformation associated with it? [4]

Question Number : 8 Question Id : 32718710879 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

- a) Describe the mode of action of digoxin and its monitoring. [5]
- b) What is the dose used? [2]
- c) What are the adverse effects? [3]

Question Number : 9 Question Id : 32718710880 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

- a) What are the types of vascular access that can be created for a patient with chronic renal failure requiring hemodialysis every week? Describe the operative techniques. [6]
- b) Prevention of acute renal injury in peri-operative period in cardiac surgery. [4]

Question Number : 10 Question Id : 32718710881 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

- a) What are the harmful effects of smoking and alcohol on the heart and lungs? [4]
- b) Why red meat is not advised for the cardiac patients? [2]
- c) What is the general advice given to the postoperative patient after coronary artery bypass at the

time of discharge? [2]

d) Drugs commonly advised on discharge in young CAD patients. [2]