

National Board of Examinations

Question Paper Name :	DrNB Cardio Vascular and Thoracic Surgery Paper2
Subject Name :	DrNB Cardio Vascular and Thoracic Surgery Paper2
Creation Date :	2023-10-15 14:13:42
Duration :	180
Share Answer Key With Delivery Engine :	No
Actual Answer Key :	No

DrNB Cardio Vascular and Thoracic Surgery Paper2

Group Number :	1
Group Id :	3271872464
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 Cardio Vascular and Thoracic Surgery Paper2

Section Id :	3271872467
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 :	3271872471
Question Shuffling Allowed :	No
Is Section Default? :	null

Question Number : 1 Question Id : 32718724873 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) Enumerate various ventricular assist devices. Briefly describe latest ventricular assist device.

[5]

b) Cardiac xenotransplantation. [3]

c) Dr. K. N. Dastur and his contributions. [2]

Question Number : 2 Question Id : 32718724874 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 10

Intra-aortic balloon pump:

- a) Principle. [2]
- b) Indications. [2]
- c) Contraindications. [2]
- d) Routes of IABP insertion and monitoring. [2]
- e) Complications of intra-aortic balloon pump. [2]

Question Number : 3 Question Id : 32718724875 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) Reasons for morbidity, mortality and postoperative surveillance following lung transplantation. [5]
- b) Role of ECMO in thoracic diseases. [2]
- c) Post tracheostomy complications and management. [3]

Question Number : 4 Question Id : 32718724876 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) Wilkins scoring system and its clinical application. [3]
- b) Technique of Balloon mitral valvotomy. [3]
- c) Complications and contraindications of Balloon mitral valvotomy. [2+2]

Question Number : 5 Question Id : 32718724877 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) Role of MRI in cardiac disorders. [3]
- b) Positron emission tomography scan. [2]
- c) Difference between CT scan and a PET scan. [2]
- d) MRI compatible devices in cardiac sciences. [3]

Question Number : 6 Question Id : 32718724878 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) Piezoelectric substances. [3]
- b) Enumerate use of Trans-esophageal echocardiography in operation theatre. [3]
- c) Enumerate various views of transthoracic echocardiography. [4]

Question Number : 7 Question Id : 32718724879 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) Pulmonary function testing and define various lung volumes. [4]
- b) Six-minute walk test. [2]
- c) Define DLCO, FEV1 , FEV1/ FVC and relevance for lung surgery decision. [4]

Question Number : 8 Question Id : 32718724880 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) Current indications of heart-lung transplantation. [3]
- b) Contraindication for heart donation. [3]
- c) Donor selection criteria for lung transplant. [2]
- d) First International successful heart transplant. [2]

Question Number : 9 Question Id : 32718724881 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) Intrinsic, extrinsic and common pathway of coagulation cascade. [3]

b) Hemophilia cause and types. [2]

c) Vitamin K dependent factors and antagonist drugs. [3]

d) Jehovah's Witnesses and surgical management strategy for this. [2]

Question Number : 10 Question Id : 32718724882 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) Absolute and relative contraindications for trans-catheter aortic valve replacement (TAVR). [3]

b) Complications of TAVR. [3]

c) Technique, team and US-FDA approved valves of TAVR. [4]