

# National Board of Examinations

<b>Question Paper Name :</b>	DrNB Cardio Vascular and Thoracic Surgery Paper3
<b>Subject Name :</b>	DrNB Cardio Vascular and Thoracic Surgery Paper3
<b>Creation Date :</b>	2022-06-25 17:21:10
<b>Duration :</b>	180
<b>Share Answer Key With Delivery Engine :</b>	No
<b>Actual Answer Key :</b>	No

## DrNB Cardio Vascular and Thoracic Surgery Paper3

<b>Group Number :</b>	1
<b>Group Id :</b>	3271871082
<b>Group Maximum Duration :</b>	0
<b>Group Minimum Duration :</b>	180
<b>Show Attended Group? :</b>	No
<b>Edit Attended Group? :</b>	No
<b>Break time :</b>	0
<b>Group Marks :</b>	100
<b>Is this Group for Examiner? :</b>	No
<b>Examiner permission :</b>	Cant View
<b>Show Progress Bar? :</b>	No

## DrNB Cardio Vascular and Thoracic Surgery Paper3

<b>Section Id :</b>	3271871085
---------------------	------------

**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 :** 3271871089  
**Question Shuffling Allowed :** No

**Question Number : 1 Question Id : 3271879872 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) Describe the biomarkers of myocardial injury. [7]  
b) What is their current status of relevance to the postoperative conditions following open heart surgery? [3]

**Question Number : 2 Question Id : 3271879873 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 indications for ventricular assist devices? [4]  
b) Compare HVAD with Heartmate 3. [6]

**Question Number : 3 Question Id : 3271879874 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

- a) Compare TAVI (transcatheter aortic valve implantation) with SAVR (surgical aortic valve replacement) with respect to the indications, merits and demerits. [6]
- b) Briefly describe two trials. [4]

**Question Number : 4 Question Id : 3271879875 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

- a) Describe the techniques of autologous perfusion for blood conservation during open heart surgery. [5]
- b) Role of thromboelastography in management of postoperative bleedings. [5]

**Question Number : 5 Question Id : 3271879876 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

- a) Guidelines for indications for surgery in aortic stenosis. [3]
- b) Guidelines for indications for surgery in aortic regurgitations. [3]
- c) Briefly discuss valve options for bicuspid aortic valve surgery in a 14 year old child. [4]

**Question Number : 6 Question Id : 3271879877 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

- a) What is Montgomery tracheal tube? [4]
- b) What are the types of tracheal stents and describe the method of placement? [6]

**Question Number : 7 Question Id : 3271879878 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

Describe the technique of minimally invasive cardiac surgery(MICS) for the lesions of mitral valve and aortic valve under following subheads:

- a) CPB strategy. [3]
- b) Aortic cross clamping. [2]
- c) Deairing. [3]
- d) Defibrillation. [2]

**Question Number : 8 Question Id : 3271879879 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 advanced techniques or gadgets used for aortic clamping / occlusion and for the proximal anastomoses of vein graft to the aorta during coronary artery bypass? [5]
- b) FAME trial. [5]

**Question Number : 9 Question Id : 3271879880 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

- a) What is the role of robotics in cardiothoracic surgery? [5]
- b) Describe the port placement and operative technique for robotic thymectomy. [5]

**Question Number : 10 Question Id : 3271879881 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

- a) What is double switch operation? Describe its technique. [6]
- b) What is the indication for this procedure? [2]
- c) What is the alternate strategy if double switch is not feasible? [2]