

National Board of Examinations

Question Paper Name :	DrNB Cardiology Paper1
Subject Name :	DrNB Cardiology Paper1
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Actual Answer Key :	No

DrNB Cardiology Paper1

Group Number :	1
Group Id :	3271871915
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 Cardiology Paper1

Section Id :	3271871918
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 :	3271871922
Question Shuffling Allowed :	No
Is Section Default? :	null

Question Number : 1 Question Id : 32718725693 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) Adrenergic signalling system: Comparative cardiovascular effects of alpha and beta adrenergic receptor stimulation. [5]
- b) Cholinergic and nitric oxide signalling systems. [5]

Question Number : 2 Question Id : 32718725694 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) Define pragmatic and explanatory trials. Discuss in brief the design of these trials and relative advantages of each one. [5]

b) What is intention to treat analysis and per protocol analysis? Mention the strength and weakness of both the analysis types. [5]

Question Number : 3 Question Id : 32718725695 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) Fetal circulation & changes in circulation after birth. [5]
- b) Embryological basis of Tetralogy of Fallot. [5]

Question Number : 4 Question Id : 32718725696 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) Normal layers of the artery. [5]
- b) Evolution of atheroma and complications of atherosclerosis. [5]

Question Number : 5 Question Id : 32718725697 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) Proteome and metabolome and how are these useful in discovering a biomarker. [5]
- b) Regional anatomy relevant to percutaneous femoral arterial and venous catheterization. Write the complications related to femoral access. [5]

Question Number : 6 Question Id : 32718725698 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) Functional consequences of Reversible Ischemia: stunning & hibernation. [5]
- b) Concept of Neuromodulation: application in Cardiology. [5]

Question Number : 7 Question Id : 32718725699 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) Classification of coronary tree anatomy: syntax score. [5]
- b) ACC/AHA coronary lesion classification. [5]

Question Number : 8 Question Id : 32718725700 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) Pathophysiology and hemodynamics of cardiac tamponade. [5]
- b) Pathophysiology and hemodynamics of chronic constrictive pericarditis. [5]

Question Number : 9 Question Id : 32718725701 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) Cardiac transplantation: Pathological types of rejection. [5]
- b) Applied anatomy of conduction system. [5]

Question Number : 10 Question Id : 32718725702 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) Phases of cardiac action potential and its clinical application. [5]
- b) Neurohormonal changes in heart failure. [5]