

National Board of Examinations

Question Paper Name :	DrNB INTERVENTIONAL RADIOLOGY Paper3
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DrNB INTERVENTIONAL RADIOLOGY Paper3

Group Number :	1
Group Id :	3271871651
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 INTERVENTIONAL RADIOLOGY Paper3

Section Id :	3271871654
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 :	3271871658
Question Shuffling Allowed :	No
Is Section Default? :	null

Question Number : 1 Question Id : 32718716042 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. Hemorrhagic stroke:

- Imaging techniques for suspected stroke. [3]
- Management strategies for ruptured aneurysms. [4]
- Vasospasm in SAH and its management protocol. [3]

Question Number : 2 Question Id : 32718716043 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 10

Carotid atherosclerotic disease:

- a) Discuss doppler evaluation of carotid stenosis. [3]
- b) Stenting in carotid stenosis. [4]
- c) Describe the advantages and limitations of embolic protection devices. [3]

Question Number : 3 Question Id : 32718716044 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 10

Artificial intelligence in interventional radiology:

- a) Explain the technique of image segmentation and deep learning. [3]
- b) Describe the use of fusion imaging in interventional radiology. [4]
- c) Discuss the role of split dose PET-guided lung ablation. [3]

Question Number : 4 Question Id : 32718716045 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 10

Dural arterio-venous fistulas (dAVF):

- a) Classification of Dural AVFs. [3]
- b) Briefly discuss the imaging in Dural AVFs. [4]
- c) Endovascular management of Intracranial Dural AVFs. [3]

Question Number : 5 Question Id : 32718716046 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 10

Spinal vascular malformations:

- a) Discuss arterial supply of the spinal cord. [3]
- b) Classification of spinal vascular malformations. [4]
- c) Describe the endovascular management strategies. [3]

Question Number : 6 Question Id : 32718716047 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 10

Management of vertebral collapse:

- a) Enumerate the causes of vertebral collapse. [3]
- b) Briefly discuss the technique & complications of vertebroplasty. [4]
- c) Discuss the differences between kyphoplasty and vertebroplasty. [3]

Question Number : 7 Question Id : 32718716048 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 10

Interventions in Budd-Chiari syndrome:

- a) Describe the imaging classification of BCS. [3]
- b) Describe in detail the DIPS procedure. [4]
- c) Describe the different types of surgical shunts and the technique of recanalization of occluded surgical shunts. [3]

Question Number : 8 Question Id : 32718716049 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 10

Irreversible electroporation in interventional oncology:

- a) Describe the mechanism of IRE. [3]
- b) Describe the application of IRE in locally advanced pancreatic cancer. [4]
- c) COLDFIRE 2 trial. [3]

Question Number : 9 Question Id : 32718716050 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 10

Angio-CT lab:

- a) Describe the working of angio-CT. [3]
- b) Discuss the contrast considerations for abdominal catheter angiography in angio-CT. [4]
- c) Discuss the uses of angio-CT. [3]

Question Number : 10 Question Id : 32718716051 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 10

Prostate artery embolization (PAE):

- a) Describe the indications of PAE. [3]
- b) Describe the technique and hardware for PAE. [4]
- c) Discuss the complications of the procedure. [3]