

National Board of Examinations

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

Group Number :	1
Group Id :	3271871281
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 INTERVENTIONAL RADIOLOGY Paper3

Section Id :	3271871284
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 : 3271871288
Question Shuffling Allowed : No

Question Number : 1 Question Id : 32718711862 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. Endovascular management of acute stroke:

- a) Role of CT perfusion in acute stroke. [3]
- b) Mechanical thrombectomy techniques. [4]
- c) DAWN and Defuse trial. [3]

Question Number : 2 Question Id : 32718711863 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Spinal Dural Arterio-Venous Fistula (SDAVF):

- a) Describe types of SDAVF. [3]
- b) Describe various endovascular embolization techniques and hardware used. [4]

c) Role of imaging in SDAVF. [3]

Question Number : 3 Question Id : 32718711864 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Management of Subarachnoid Haemorrhage (SAH):

- a) Imaging protocol in SAH. [3]
- b) Various methods of endovascular management in ruptured intracranial aneurysms. [4]
- c) Intracascular devices. [3]

Question Number : 4 Question Id : 32718711865 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Artificial Intelligence (AI) tools in Interventional Radiology:

- a) Describe Artificial Intelligence in brief. [3]
- b) Application of AI in Interventional Radiology. [4]
- c) Describe various challenges in AI. [3]

Question Number : 5 Question Id : 32718711866 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Interventional management of collapse of vertebrae:

- a) Describe vertebroplasty. [3]
- b) Kiva VCF System. [4]
- c) Advantages of kyphoplasty. [3]

Question Number : 6 Question Id : 32718711867 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Carotid revascularization in asymptomatic carotid artery stenosis:

- a) Evidence based recommendation of carotid artery stenting (CAS). [3]
- b) Describe in brief about distal protection devices. [4]

c) Describe various types of stents used in CAS. [3]

Question Number : 7 Question Id : 32718711868 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Management of cerebral arteriovenous malformations (AVMs):

- a) ARUBA Trial. [3]
- b) Describe conventional technique of AVM embolization. [4]
- c) Describe pressure cooker technique. [3]

Question Number : 8 Question Id : 32718711869 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Intracranial atherosclerotic disease (ICAD):

- a) Definition and diagnostic evaluation of ICAD. [3]
- b) Endovascular management of ICAD. [4]
- c) Newer hardware in management of ICAD. [3]

Question Number : 9 Question Id : 32718711870 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Trans radial access for visceral interventions:

- a) Describe the technique of trans radial approach. [3]
- b) Indications and benefits of trans radial access. [4]
- c) Newer hardware in trans radial access Kit. [3]

Question Number : 10 Question Id : 32718711871 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Role of Interventional Radiology in liver transplant:

- a) Doppler evaluation in post liver transplant patient. [3]
- b) Describe vascular complications after liver transplant. [4]

c) Management of liver transplant non vascular complications. [3]