

# National Board of Examinations

<b>Question Paper Name :</b>	DrNB INTERVENTIONAL RADIOLOGY Paper3
<b>Subject Name :</b>	DrNB INTERVENTIONAL RADIOLOGY Paper3
<b>Creation Date :</b>	2022-12-26 13:13:03
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## DrNB INTERVENTIONAL RADIOLOGY Paper3

<b>Group Number :</b>	1
<b>Group Id :</b>	3271871538
<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>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 INTERVENTIONAL RADIOLOGY Paper3

<b>Section Id :</b>	3271871541
<b>Section Number :</b>	1
<b>Section type :</b>	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 :** 3271871545

**Question Shuffling Allowed :** No

**Is Section Default? :** null

**Question Number : 1 Question Id : 32718714572 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) Describe the imaging techniques used in the diagnosis of Carotid cavernous fistula (CCF). [4]
- b) Describe the technique of endovascular management of CCF. [6]

**Question Number : 2 Question Id : 32718714573 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) Describe the imaging techniques used in the diagnosis of acute ischemic stroke. [3]
- b) Describe the endovascular technique of treating acute ischemic stroke. [4]
- c) Discuss few recent trials on ischemic stroke. [3]

**Question Number : 3 Question Id : 32718714574 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) What are the Opportunities of Robotics in Neurointervention? [3]
- b) What are the challenges of implementing robotics in neurointervention? [4]
- c) Discuss the advantages of robotics in neurointerventions. [3]

**Question Number : 4 Question Id : 32718714575 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) Discuss the imaging techniques used in diagnosis of dural venous stenosis. [3]
- b) Discuss endovascular techniques used in the treatment of this condition. [4]
- c) Discuss the complications of endovascular management of dural venous stenosis. [3]

**Question Number : 5 Question Id : 32718714576 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) Discuss the imaging features of juvenile angiofibroma. [4]
- b) Discuss the role and technique of preoperative embolisation. [6]

**Question Number : 6 Question Id : 32718714577 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) Discuss the indications for inferior petrosal sinus venous sampling. [3]
- b) Describe the technique of IPS venous sampling. [4]

c) Discuss pitfalls performing and interpretation of IPS venous sampling. [3]

**Question Number : 7 Question Id : 32718714578 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) Discuss the classification of spinal dural fistulas. [3]

b) Discuss the various hardware's used in the treatment of spinal dural fistula. [4]

c) Describe the endovascular technique in the management of spinal dural fistula. [3]

**Question Number : 8 Question Id : 32718714579 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) Discuss the imaging findings of spinal osteoid osteomas. [3]

b) Discuss the ablative techniques used in the treatment of spinal osteoid osteoma. [4]

c) Describe technical modifications and precautions used during the ablative techniques of spinal osteoid osteoma. [3]

**Question Number : 9 Question Id : 32718714580 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) Describe the imaging techniques used in the diagnosis of blunt cerebrovascular injuries. [3]

b) Discuss the endovascular techniques used in management of blunt cerebrovascular injuries. [4]

c) Discuss the post treatment protocol. [3]

**Question Number : 10 Question Id : 32718714581 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) Onyx. [4]

b) Detachable balloons. [3]

c) Flow diverters. [3]