

# National Board of Examinations

**Question Paper Name :** DrNB INTERVENTIONAL RADIOLOGY Paper3  
**Subject Name :** DrNB INTERVENTIONAL RADIOLOGY Paper3  
**Duration :** 180  
**Total Marks :** 100  
**Display Marks:** No

**Maximum Instruction Time :** 0

**Question Number : 1 Question Id : 32718741004 Consider As Subjective : Yes**

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 clinical evaluation of a patient presenting with acute stroke in casualty department. [3]
- b) What are the current imaging protocols and standard timelines for acute stroke which would help you to decide and initiate the appropriate management? [4]
- c) Elaborate the role of perfusion weighted imaging in acute stroke. [3]

**Question Number : 2 Question Id : 32718741005 Consider As Subjective : Yes**

Stroke interventions:

- a) Describe the imaging and clinical patient selection criteria and the timeline for initiating therapeutic procedures in acute ischemic stroke. [5]
- b) Describe the various techniques available for mechanical thrombectomy for acute ischemic stroke. [5]

**Question Number : 3 Question Id : 32718741006 Consider As Subjective : Yes**

Dural arteriovenous fistula [DAVF]:

- a) Elaborate the clinical features and imaging findings of intracranial dural AV fistulas(DAVF). [5]
- b) What is the role of interventional radiology (IR) in management of DAVF? [5]

**Question Number : 4 Question Id : 32718741007 Consider As Subjective : Yes**

Arteriovenous malformations:

- a) Describe the classification system for arteriovenous malformations of brain. [5]
- b) Describe the various techniques for management of brain AVMs. [5]

**Question Number : 5 Question Id : 32718741008 Consider As Subjective : Yes**

Intracranial aneurysm management:

- a) Describe the various endovascular techniques for management of intracranial aneurysms. [5]
- b) Describe the various intra procedure complications which may occur during endovascular treatment of a brain aneurysm along with their management. [5]

**Question Number : 6 Question Id : 32718741009 Consider As Subjective : Yes**

Intracranial aneurysm management:

- a) Describe the management of various complications which may occur in the post operative period after successful endovascular treatment of a ruptured intracranial aneurysm. [5]
- b) How would you follow up an intracranial aneurysm, successfully treated by endovascular methods? [5]

**Question Number : 7 Question Id : 32718741010 Consider As Subjective : Yes**

Venous sinuses:

- a) Describe clinical & imaging features of Idiopathic intracranial hypertension (IIH). [5]
- b) What is the natural history and treatment options for IIH? [5]

**Question Number : 8 Question Id : 32718741011 Consider As Subjective : Yes**

Carotid artery stenting:

- a) What are the indications of treating a patient with extracranial carotid artery stenosis? [3]
- b) Describe the steps for carotid artery stenting(CAS). [4]
- c) Briefly describe the potential complications and management of intra and post procedure complications of CAS? [3]

**Question Number : 9 Question Id : 32718741012 Consider As Subjective : Yes**

Spinal interventions:

- a) Describe the angiographic classification of spinal vascular malformations. [5]
- b) Describe the endovascular management of spinal vascular malformations. [5]

**Question Number : 10 Question Id : 32718741013 Consider As Subjective : Yes**

Recent advances:

- a) Describe the role of Artificial intelligence (AI) in neuro interventional procedures. [5]
- b) Elaborate the technique for management of Dural arteriovenous fistula of brain with venous approach. [5]