

National Board of Examinations

Question Paper Name :	DrNB INTERVENTIONAL RADIOLOGY Paper1
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DrNB INTERVENTIONAL RADIOLOGY Paper1

Group Number :	1
Group Id :	3271871268
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 Paper1

Section Id :	3271871271
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 :	3271871275
Question Shuffling Allowed :	No

Question Number : 1 Question Id : 32718711732 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. 3D Rotational Angiography System (3D RA).

a) Describe Image formation in 3D DSA. [3]

b) Describe various software applications available in present Biplane Angiography system in Diagnostic Angiographic evaluation. [4]

c) Advantages of 3D RA over 2D RA. [3]

Question Number : 2 Question Id : 32718711733 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Angiographic anatomy of Extra cranial and Intracranial Vessels:

a) What are the various branches of External Carotid Artery. [3]

- b) Describe various Carotid- vertebrbasilar anastomosis. [4]
- c) Enumerate the Segments of Internal carotid artery and its branches. [3]

Question Number : 3 Question Id : 32718711734 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Contrast induced Hypersensitivity:

- a) Describe the risk factors for Contrast Induced Nephropathy. [3]
- b) Management of various Contrast Media reactions. [4]
- c) Write in brief about Circulatory Collapse and Shock. [3]

Question Number : 4 Question Id : 32718711735 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Embolization Material for Occlusion of bleeding sites:

- a) What are the various Types of Embolization agents. [3]
- b) Describe the Various types of Coils used in Interventional Radiology. [4]
- c) Describe preparation and technique of injection of N-Butyl cyanoacrylate glue. [3]

Question Number : 5 Question Id : 32718711736 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Coagulation protocol in Interventional Radiology:

- a) Describe Periprocedural Anticoagulation. [3]
- b) What is Heparin Induced Thrombocytopenia. [4]
- c) What are the newer anticoagulants used. [3]

Question Number : 6 Question Id : 32718711737 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Analgesia in Interventional Suite:

- a) Discuss in brief about Types of Sedation and Analgesia. [3]

b) Advantages of Conscious sedation over General Anaesthesia. [4]

c) Describe Various Anaesthetic Drugs. [3]

Question Number : 7 Question Id : 32718711738 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Access site in Intervention Suite:

a) Compare femoral and radial arterial access techniques. [3]

b) Percutaneous Venous access in various interventions. [4]

c) Write in brief about Various Access Closure Devices. [3]

Question Number : 8 Question Id : 32718711739 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Radiation Protection in Interventional Suite:

a) Personalised Dosimeter. [3]

b) Safe practice in reducing Radiation dose. [4]

c) Various types of Shielding and Radiation protection devices. [3]

Question Number : 9 Question Id : 32718711740 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Abdominal Angiography Procedure:

a) Describe Collateral Circulation of Mesenteric Vessels. [3]

b) Variations of hepatic arterial anatomy. [4]

c) Utero-Ovarian Anastomosis. [3]

Question Number : 10 Question Id : 32718711741 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Catheter Angiography in Peripheral Arterial Disease:

a) Anatomy of lower limb arteries. [3]

b) Contrast injection rate and volume of Contrast for lower limb vessels. [4]

c) CO₂ Angiography. [3]