

National Board of Examinations

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

Group Number :	1
Group Id :	3271872791
Group Maximum Duration :	0
Group Minimum Duration :	180
Show Attended Group? :	No
Edit Attended Group? :	No
Break time :	0
Group Marks :	100

DrNB INTERVENTIONAL RADIOLOGY Paper1

Section Id :	3271872794
Section Number :	1
Section type :	Offline
Mandatory or Optional :	Mandatory
Number of Questions :	10
Number of Questions to be attempted :	10
Section Marks :	100
Maximum Instruction Time :	0
Sub-Section Number :	1
Sub-Section Id :	3271872798
Question Shuffling Allowed :	No

Question Number : 1 Question Id : 32718729194 Question Type : SUBJECTIVE Consider As Subjective : Yes

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. Platelet function and anti-platelet drugs.

a) Discuss the role of platelets in hemostasis. [4]

b) Enumerate various platelet receptors. Also enumerate the different types of anti-platelet drugs acting upon the different receptors. [3]

c) Discuss the role of platelet aggregation inhibitors in Interventional Radiology. [3]

Question Number : 2 Question Id : 32718729195 Question Type : SUBJECTIVE Consider As Subjective : Yes

Correct Marks : 10

a) Discuss embryology of the gut and its blood supply. [4]

b) Discuss the radiological anatomy of the Marginal artery of Drummond. [3]

c) Enumerate various arterial anastomotic networks around the foregut-midgut and the midgut-hindgut. [3]

Question Number : 3 Question Id : 32718729196 Question Type : SUBJECTIVE Consider As Subjective : Yes

Correct Marks : 10

a) Discuss the principles of flow diversion in the treatment of intra-cranial aneurysms. [3]

b) Enumerate different materials used in the construction of flow diverters and discuss the strategies of imparting radio-opacity to these devices. [3]

c) Discuss pre-procedure and post procedure instructions in the management of patients with acutely ruptured intra-cranial aneurysms being treated with flow diversion. [4]

Question Number : 4 Question Id : 32718729197 Question Type : SUBJECTIVE Consider As Subjective : Yes

Correct Marks : 10

a) Discuss anatomic considerations and technique of radial arterial access. [4]

b) Discuss appropriate pharmacological use during trans-radial endovascular procedures. [3]

c) Discuss complications of trans-radial procedures. [3]

Question Number : 5 Question Id : 32718729198 Question Type : SUBJECTIVE Consider As Subjective : Yes

Correct Marks : 10

- a) Describe the risk factors and pathology of acute thoracic aortic dissection. [3]
- b) Discuss the clinical presentation of acute thoracic aortic dissection. [3]
- c) Describe diagnostic radiological evaluation in a case of acute thoracic aortic dissection with treatment implications. [4]

Question Number : 6 Question Id : 32718729199 Question Type : SUBJECTIVE Consider As Subjective : Yes

Correct Marks : 10

- a) Discuss the ways to measure occupational exposure among healthcare workers involved in interventional radiology. [3]
- b) Enumerate the various personal protective devices available to minimize occupational exposure. [3]
- c) Describe the construction and function of the thermo-luminescent dosimeter (TLD) badge. [4]

Question Number : 7 Question Id : 32718729200 Question Type : SUBJECTIVE Consider As Subjective : Yes

Correct Marks : 10

- a) Discuss the construction of chemoports and the available hardware in a chemoport package. [3]
- b) Discuss the technique of placement of a chemoport. [3]
- c) Discuss advantages and disadvantages of chemoport placement for oncology patients vis a vis peripherally inserted central catheters (PICC line). [4]

Question Number : 8 Question Id : 32718729201 Question Type : SUBJECTIVE Consider As Subjective : Yes

Correct Marks : 10

- a) Enumerate various opioid agents and their role in interventional radiology. [4]
- b) Discuss the modes of anaesthesia for different types of liver ablations. [3]
- c) Describe the technique of superior hypogastric plexus block. [3]

Question Number : 9 Question Id : 32718729202 Question Type : SUBJECTIVE Consider As Subjective : Yes

Correct Marks : 10

- a) Classify different techniques to achieve arterial puncture site hemostasis in interventional radiology procedures. [3]
- b) Describe the mechanism of action and advantages of suture based hemostatic devices. [4]
- c) Discuss contraindications and complications of the use of suture based hemostatic devices. [3]

Question Number : 10 Question Id : 32718729203 Question Type : SUBJECTIVE Consider As Subjective : Yes

Correct Marks : 10

- a) Describe image acquisition principles of high resolution cone beam CT scan in the DSA suite. [4]
- b) Discuss injection protocols during acquisition of high resolution cone beam CT scan. [3]
- c) Discuss clinical applications of high resolution cone beam CT scan in Interventional

