

# National Board of Examinations

<b>Question Paper Name :</b>	DrNB INTERVENTIONAL RADIOLOGY Paper1
<b>Subject Name :</b>	DrNB INTERVENTIONAL RADIOLOGY Paper1
<b>Creation Date :</b>	2023-10-15 14:11:36
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## DrNB INTERVENTIONAL RADIOLOGY Paper1

<b>Group Number :</b>	1
<b>Group Id :</b>	3271872083
<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 Paper1

<b>Section Id :</b>	3271872086
<b>Section Number :</b>	1
<b>Section type :</b>	Offline

<b>Mandatory or Optional :</b>	Mandatory
<b>Number of Questions to be attempted :</b>	10
<b>Section Marks :</b>	100
<b>Enable Mark as Answered Mark for Review and Clear Response :</b>	Yes
<b>Maximum Instruction Time :</b>	0
<b>Sub-Section Number :</b>	1
<b>Sub-Section Id :</b>	3271872090
<b>Question Shuffling Allowed :</b>	No
<b>Is Section Default? :</b>	null

**Question Number : 1 Question Id : 32718720562 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. Anatomy:

- Describe the Lower limb Venous Anatomy. [3]
- Discuss CEAP (Clinical–Etiology–Anatomy–Pathophysiology) classification of Chronic Venous disorders [4]
- Discuss the Doppler findings in Chronic venous insufficiency. [3]

**Question Number : 2 Question Id : 32718720563 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 10**

Tools and Hardwares:

- a) Discuss about various Needles. [3]
- b) Discuss about various wires. [3]
- c) Discuss about various Catheters. [4]

**Question Number : 3 Question Id : 32718720564 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 10**

Embolising agents:

- a) Classification of Embolising agents. [3]
- b) Discuss the algorithm of How and What agents to be chosen for Various conditions. [4]
- c) Discuss about liquid embolising agents. [3]

**Question Number : 4 Question Id : 32718720565 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 10**

Technology:

- a) Describe Principle and advantages of in 3D DSA. [3]
- b) Describe advantages of Biplane Angiography system over single plane angiography system. [3]
- c) Discuss various methods of radiation dose reducing methods to the operator. [4]

**Question Number : 5 Question Id : 32718720566 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 10**

Access:

- a) Discuss various artery access technique and its advantages. [5]
- b) Describe various complications of brachial access site puncture and its management. [5]

**Question Number : 6 Question Id : 32718720567 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 10**

Contrast related:

- a) Describe definition and risk factors of Contrast Induced Nephropathy. [3]
- b) Discuss various methods to reduce risk of contrast induced nephropathy. [4]
- c) Write a brief note on contrast anaphylaxis and how to manage. [3]

**Question Number : 7 Question Id : 32718720568 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 10**

Procedure related:

- a) Discuss pre-procedure work-up in patients with high risk of bleeding. [3]
- b) Discuss the precautionary procedural steps to be taken in patients with coagulopathy. [4]
- c) Discuss the role of use of various blood products in patients with deranged coagulation profile. [3]

**Question Number : 8 Question Id : 32718720569 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 10**

Technique related:

- a) Discuss the properties of lipiodol contrast agent. [4]
- b) Discuss about role of contrast enhanced ultrasound agents during various interventional procedures. [6]

**Question Number : 9 Question Id : 32718720570 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 10**

Post procedure:

- a) Discuss about SIR classification of angiographic complications. [3]
- b) Discuss management of post lung biopsy complications. [3]
- c) Discuss about monitoring of patients treated with thrombolytic agents. [4]

**Question Number : 10 Question Id : 32718720571 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 10**

Advances:

- a) Briefly describe about Intravascular ultrasound. [3]
- b) Discuss about various IVUS indications in patients undergoing percutaneous vascular interventions. [4]
- c) Discuss about technique and complications of IVUS. [3]