

# National Board of Examinations

<b>Question Paper Name :</b>	DNB Nuclear Medicine Paper4
<b>Subject Name :</b>	DNB Nuclear Medicine Paper4
<b>Creation Date :</b>	2023-04-27 21:17:39
<b>Duration :</b>	180
<b>Share Answer Key With Delivery Engine :</b>	No
<b>Actual Answer Key :</b>	No

## DNB Nuclear Medicine Paper4

<b>Group Number :</b>	1
<b>Group Id :</b>	327187806
<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

## DNB Nuclear Medicine Paper4

<b>Section Id :</b>	327187809
<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>	327187813
<b>Question Shuffling Allowed :</b>	No
<b>Is Section Default? :</b>	null

**Question Number : 1 Question Id : 3271877142 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 10**

1. Discuss the handling of spill of an unknown isotope in a department of Nuclear Medicine. Describe in detail the various steps from the identification of spill to the handling according to the isotope [10]

**Question Number : 2 Question Id : 3271877143 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 10**

Discuss the non-invasive quantitative coronary blood flow parameters and their integration in evaluation of myocardial ischemia for the clinical interpretation. [6+4]

**Question Number : 3 Question Id : 3271877144 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 10**

Multimodality imaging in the evaluation and management of Alzheimer's disease. [10]

**Question Number : 4 Question Id : 3271877146 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) Applications of AI and Machine learning in Nuclear Medicine image interpretations. [5]
- b) Non NET applications of 68 Ga isotopes in Nuclear Medicine [5]

**Question Number : 5 Question Id : 3271877147 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) Role of SPECT & PET in evaluation of cardiac arrhythmias. [8]
- b) Advantages and disadvantages of NM over MR imaging. [2]

**Question Number : 6 Question Id : 3271877148 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) Role of PET in imaging of auto-immune encephalitis. [5]
- b) Targeted therapies in the management of NSCLC. [5]

**Question Number : 7 Question Id : 3271877149 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) Various response evaluation criteria in PET/CT imaging. [5]
- b) Compare and contrast TheraP trial versus VISION trial. [5]

**Question Number : 8 Question Id : 3271877150 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) iRECIST and irRECIST criteria. [5]

b) Performance of the PET Vascular Activity Score (PETVAS) in the management of Takayasu's arteritis. [5]

**Question Number : 9 Question Id : 3271877151 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) Management of acute radiation syndrome. [5]

b) A recently married female, unaware of her pregnancy, received 5 mCi of I-131 activity inadvertently. She became worried and needs your consultation, how you are going to deal with this situation? [5]

**Question Number : 10 Question Id : 32718720882 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) PET/CT Guided interventions : Indications, technique and advantages. [5]

b) Axillary Reverse mapping. [5]