

National Board of Examinations

Question Paper Name :	DNB Nuclear Medicine Paper4
Subject Name :	DNB Nuclear Medicine Paper4
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Share Answer Key With Delivery Engine :	No
Actual Answer Key :	No

DNB Nuclear Medicine Paper4

Group Number :	1
Group Id :	3271872562
Group Maximum Duration :	0
Group Minimum Duration :	180
Show Attended Group? :	No
Edit Attended Group? :	No
Group Marks :	100
Is this Group for Examiner? :	No
Examiner permission :	Cant View
Show Progress Bar? :	No

DNB Nuclear Medicine Paper4

Section Id :	3271872565
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 :	3271872569
Question Shuffling Allowed :	No
Is Section Default? :	null

Question Number : 1 Question Id : 32718726073 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. Discuss the duties and responsibilities of Radiological Safety Officer (RSO) in Nuclear Medicine department. [10]

Question Number : 2 Question Id : 32718726074 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 determinants and mechanisms of resistance for PSMA radioligand therapy in patients with metastatic castration prostate cancer. [10]

Question Number : 3 Question Id : 32718726075 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) Law of Bergonie and Tribondeau. [5]
- b) International Nuclear and Radiological Event Scale (INES). [5]

Question Number : 4 Question Id : 32718726076 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) Categories of radioactive packages for transport. [5]
- b) Biological effects of radiation. [5]

Question Number : 5 Question Id : 32718726077 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) INOCA & MINOCAI. [5]
- b) COSMIC 311 trial. [5]

Question Number : 6 Question Id : 32718726078 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) 68 Ga FAPI. [5]
- b) PET based quantification in Nuclear Cardiology. [5]

Question Number : 7 Question Id : 32718726079 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 role of integrated PET-MRI in neurology with its advantages and disadvantages over PET-CT. [10]

Question Number : 8 Question Id : 32718726080 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) Biological methods of dosimetry in internal dose assessment. [5]

b) What are the various methods of sentinel node mapping? Compare the radiotracer mapping vs fluorescent indocyanine green guidance, advantages and disadvantages. [5]

Question Number : 9 Question Id : 32718726081 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-CT in Rheumatology. [5]

b) What do you understand from Reporting & Data Systems (RADS)? Mention the existing systems in use and describe any two of them. [5]

Question Number : 10 Question Id : 32718726082 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) Rapid onset dementia - causes and role of PET. [5]

b) Role of PET/CT imaging in immunotherapy. [5]