

National Board of Examinations

Question Paper Name : DNB Nuclear Medicine Paper4
Subject Name : DNB Nuclear Medicine Paper4
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DNB Nuclear Medicine Paper4

Group Number : 1
Group Id : 3271871496
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 : 3271871499
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 :	3271871503
Question Shuffling Allowed :	No
Is Section Default? :	null

Question Number : 1 Question Id : 32718714152 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 methods of radiopharmaceutical dosimetry in tumor imaging with examples. Explain its clinical relevance. [10]

Question Number : 2 Question Id : 32718714153 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 in detail the handling of thyroid cancer patient with widespread skeletal metastases who was admitted in an isolated ward after administration of 200 mCi of iodine-131 and died 24 hours later. [10]

Question Number : 3 Question Id : 32718714154 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) Acute radiation syndrome. [5]
- b) Relative biological effectiveness (RBE). [5]

Question Number : 4 Question Id : 32718714155 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) Nuclear medicine imaging in cardiac amyloidosis. [5]
- b) F-18 flurpiridaz. [5]

Question Number : 5 Question Id : 32718714156 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 tyrosine kinase inhibitors (TKIs) in radioiodine refractory differentiated thyroid cancers (DTC) and describe in brief the important trials done recently. [10]

Question Number : 6 Question Id : 32718714157 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 tracers in parathyroid imaging and advantage over SPECT tracers. [5]
- b) Nuclear medicine evaluation in patients with tremors. [5]

Question Number : 7 Question Id : 32718714158 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 oncology and its advantages and disadvantages over PET-CT. [10]

Question Number : 8 Question Id : 32718714159 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 copper based theragnostic radiopharmaceuticals. [10]

Question Number : 9 Question Id : 32718714160 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 nuclear medicine in plaque imaging. [5]

b) VISION trial. [5]

Question Number : 10 Question Id : 32718714161 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) Radiomics and image extraction features in PET-CT. [5]

b) Tumor-induced osteomalacia (TIO) and role of nuclear medicine imaging. [5]