

National Board of Examinations

Question Paper Name :	DNB Nuclear Medicine Paper2
Subject Name :	DNB Nuclear Medicine Paper2
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DNB Nuclear Medicine Paper2

Group Number :	1
Group Id :	3271871979
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 Paper2

Section Id :	3271871982
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 :	3271871986
Question Shuffling Allowed :	No
Is Section Default? :	null

Question Number : 1 Question Id : 32718719412 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. Describe in detail regarding Rhenium generators and its utilities in various clinical setting. [5+5]

Question Number : 2 Question Id : 32718719413 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 10

Describe various long-lived positron emitters whose half-lives are more than 2 hours with their physical and biological properties. [10]

Question Number : 3 Question Id : 32718719414 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 production methods of Cu-64 and briefly describe Cu-64 labelled radiopharmaceuticals currently used in practice. [7+3]

Question Number : 4 Question Id : 32718719415 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 10

PET/CT Radiopharmaceutical for Brain Tumors recurrence. [10]

Question Number : 5 Question Id : 32718719416 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 SPECT/CT Radiopharmaceuticals being used in the investigation of cardiac sarcoidosis. [10]

Question Number : 6 Question Id : 32718719417 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) Rabbit pyrogen test. [5]

b) Limulus Lysate Test. [5]

Question Number : 7 Question Id : 32718719418 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 factors affecting the choice of radiopharmaceutical for radiosynovectomy of large,

medium and small joints and discuss their characteristics. [4+6]

Question Number : 8 Question Id : 32718719419 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 various PET/CT Radiotracers for Prostate cancer with their advantages and disadvantages. [7+3]

Question Number : 9 Question Id : 32718719420 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 various PET/CT radiopharmaceuticals being used in the management of Insulinoma. [10]

Question Number : 10 Question Id : 32718719421 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) Terbium-152. [5]

b) Radiopharmaceuticals of Hypoxia Imaging. [5]