## **National Board of Examinations**

**Question Paper Name:** DNB Nuclear Medicine Paper2 **Subject Name:** DNB Nuclear Medicine Paper2 **Creation Date:** 2022-06-25 17:20:00 **Duration:** 180 **Share Answer Key With Delivery Engine:** Nο **Actual Answer Key:** No **DNB Nuclear Medicine Paper2 Group Number:** 1 Group Id: 3271871143 **Group Maximum Duration:** 0 180 **Group Minimum Duration: Show Attended Group?:** Nο **Edit Attended Group?:** No Break time: 0 100 **Group Marks:** 

## **DNB Nuclear Medicine Paper2**

No

No

**Cant View** 

**Section Id:** 3271871146

Section Number:

Is this Group for Examiner?:

**Examiner permission:** 

**Show Progress Bar?:** 

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 :

**Maximum Instruction Time:** 0

Sub-Section Number: 1

**Sub-Section Id:** 3271871150

**Question Shuffling Allowed:** No

Question Number: 1 Question Id: 32718710482 Question Type: SUBJECTIVE Consider As

Subjective: Yes Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction

Yes

Time:0

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 various PET radiopharmaceuticals being used in recurrent carcinoma prostate? Is there scope/role for SPECT based radiopharmaceuticals in this scenario? How would it likely benefit such patients? [3+3+4]

Question Number : 2 Question Id : 32718710483 Question Type : SUBJECTIVE Consider As

Subjective: Yes Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction

Time: 0

[3]

- a) What is the principle behind use of radiolabelled colloids for detection of sentinel lymph node/s?
- b) Which radiolabelled colloids are approved for sentinel lymph node imaging in humans? [3]
- c) What are various quality control parameters required before use of radiocolloids? [4]

Question Number: 3 Question Id: 32718710484 Question Type: SUBJECTIVE Consider As Subjective: Yes Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction Time: 0

- a) Enumerate various Nuclear Medicine imaging modalities to assess young hypertensive. [4]
- b) Describe in detail various PET radiopharmaceuticals being used in these patients. [6]

Question Number : 4 Question Id : 32718710485 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

- a) Radionuclide Cysternography. [5]
- b) Salivary gland scintigraphy. [5]

Question Number : 5 Question Id : 32718710486 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Describe various Nuclear Medicine imaging modalities in children with recurrent UTI. [10]

Question Number : 6 Question Id : 32718710487 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

- a) Stunning versus hybernating myocardium. [4]
- b) Describe various Radiopharmaceuticals used to assess myocardial viability. [6]

Question Number : 7 Question Id : 32718710488 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

- a) Radiopharmaceuticals being used in epilepsy. [5]
- b) Radiopharmaceuticals being used in dementia. [5]

**Question Number: 8 Question Id: 32718710489 Question Type: SUBJECTIVE Consider As** 

Subjective: Yes Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction

Time: 0

a) Adrenocortical imaging. [5]

b) Quality control tests for FDG. [5]

Question Number: 9 Question Id: 32718710490 Question Type: SUBJECTIVE Consider As

Subjective: Yes Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction

Time: 0

a) Describe the priciple of generator systems? [3]

b) What is the concept behind use of hydrochloric acid of different strengths in 68Ge-68Ga generators of various vendors? [4]

c) What factors contribute to the life of such a generator system? [3]

Question Number: 10 Question Id: 32718710491 Question Type: SUBJECTIVE Consider As

Subjective: Yes Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction

Time: 0

Quality control parameters of Radiopharmaceuticals. [10]