National Board of Examinations

DNB Nuclear Medicine Paper4

Subject Name :	DNB Nuclear Medicine Paper
Creation Date :	2024-05-18 18:52:09
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Share Answer Key With Delivery Engine :	No
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DNB Nuclear N	Medicine Paper4
Group Number :	1
Group Id :	3271871981
Group Maximum Duration :	0
Group Minimum Duration :	180

Question Paper Name:

Show Attended Group?:

Edit Attended Group?:

Examiner permission:

Is this Group for Examiner?:

Group Marks:

Show Progress Bar?: No

DNB Nuclear Medicine Paper4

No

No

100

No

Cant View

Section Id: 3271871984

Section Number:

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: 3271871988

Question Shuffling Allowed: No

Is Section Default?: null

Question Number: 1 Question Id: 32718719432 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 AJCC 8th Edition of ATA guidelines in thyroid cancer and enumerate changes to 7th Edition of guidelines. [10]

Question Number: 2 Question Id: 32718719433 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) 203-Pb/212-Pb based theranostic applications. [5]

b) Lu-177 DOTATATE therapy. [5]

Question Number: 3 Question Id: 32718719434 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) PROMISE Criteria. [5]

b) F¹⁸-DCFPyL PET/CT. [5]

Question Number: 4 Question Id: 32718719435 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) FDG PET/CT for evaluation of immunotherapy response in lung cancer patients. [5]

b) Deauville Criteria in lymphoma. [5]

Question Number: 5 Question Id: 32718719436 Question Type: SUBJECTIVE Consider As

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

Time: 0

Correct Marks: 10

What are currently used bifunctional chelates in various radiopharmaceutical labeling? Describe any one in details. [6+4]

Question Number: 6 Question Id: 32718719437 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 in giant cell arteritis. [5]

b) Tc-99m-PYP imaging in diagnosing transthyretin cardiac amyloidosis. [5]

Question Number: 7 Question Id: 32718719438 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 guided Biopsy: Patient preparation, indications, procedure, advantages over USG/CT guided biopsy and complications . [2+2+2+2]

Question Number: 8 Question Id: 32718719439 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) Derive HVL and TVL equations. [5]

b) Latest ICRP Recommendations on tissue weighting factors. [5]

Question Number: 9 Question Id: 32718719440 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) Copper as theranostic agent. [5]

b) What are the major changes in radiation weighting factors in latest version of ICRP? [5]

Question Number: 10 Question Id: 32718719441 Question Type: SUBJECTIVE Consider As

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

Time: 0

Correct Marks: 10

What is biological dosimetry? Describe the various factors affecting biological damage caused by radiation. [3+7]