

National Board of Examinations

Question Paper Name :	DNB Nuclear Medicine Paper2
Subject Name :	DNB Nuclear Medicine Paper2
Creation Date :	2021-08-25 22:34:49
Duration :	180
Total Marks :	100
Display Marks:	No

DNB Nuclear Medicine Paper2

Group Number :	1
Group Id :	327187270
Group Maximum Duration :	0
Group Minimum Duration :	180
Show Attended Group? :	No
Edit Attended Group? :	No
Break time :	0
Group Marks :	100
Is this Group for Examiner? :	No

DNB Nuclear Medicine Paper2

Section Id :	327187273
Section Number :	1
Section type :	Offline
Mandatory or Optional :	Mandatory

Number of Questions :	10
Number of Questions to be attempted :	10
Section Marks :	100
Enable Mark as Answered Mark for Review and Clear Response :	Yes
Sub-Section Number :	1
Sub-Section Id :	327187277
Question Shuffling Allowed :	No

Question Number : 1 Question Id : 3271871220 Question Type : SUBJECTIVE

Correct Marks : 10

Enumerate the steps in production of 18F-FDG and describe EMA and FDA approved QC protocols for 18F-FDG. [10]

Question Number : 2 Question Id : 3271871221 Question Type : SUBJECTIVE

Correct Marks : 10

What is the difference between radiochemical and radiopharmaceutical? Explain with example the mechanism of localization of radiopharmaceuticals. [10]

Question Number : 3 Question Id : 3271871222 Question Type : SUBJECTIVE

Correct Marks : 10

- a) Various types of packages. [2.5]
- b) Transport Index. [2.5]
- c) International Nuclear Event Scale (INES). [2.5]
- d) Auger Electron-based therapy. [2.5]

Question Number : 4 Question Id : 3271871223 Question Type : SUBJECTIVE

Correct Marks : 10

Write briefly about various radioisotope generators. Describe rhenium generator in detail. [10]

Question Number : 5 Question Id : 3271871224 Question Type : SUBJECTIVE

Correct Marks : 10

Non-FDG radiopharmaceuticals for imaging of Cancer Associated Fibroblasts - current status and utility with examples. [10]

Question Number : 6 Question Id : 3271871225 Question Type : SUBJECTIVE

Correct Marks : 10

- a) List various isotopes and techniques used in emergency situation. [5]
- b) 4D CECT versus Nuclear Techniques in parathyroid localisations. [5]

Question Number : 7 Question Id : 3271871226 Question Type : SUBJECTIVE

Correct Marks : 10

- a) Enumerate and classify radiopharmaceuticals used for tumor imaging. [5]
- b) Describe the role of ^{18}F -FDOPA imaging as a clinical problem solving tool. [5]

Question Number : 8 Question Id : 3271871227 Question Type : SUBJECTIVE

Correct Marks : 10

Recent advances in nuclear cardiology techniques. [10]

Question Number : 9 Question Id : 3271871228 Question Type : SUBJECTIVE

Correct Marks : 10

- a) Production methods of radionuclides. [5]
- b) What do you mean by carrier free radionuclides? Discuss the importance of no carrier added (n.c.a.) radionuclides. [5]

Question Number : 10 Question Id : 3271871229 Question Type : SUBJECTIVE

Correct Marks : 10

Enumerate different isotopes of Iodine. Describe method of production of ^{131}I . Describe the decay scheme of ^{131}I . [10]