

# National Board of Examinations

<b>Question Paper Name :</b>	DNB Radiation Oncology Paper1
<b>Subject Name :</b>	DNB Radiation Oncology Paper1
<b>Creation Date :</b>	2023-10-15 14:11:53
<b>Duration :</b>	180
<b>Share Answer Key With Delivery Engine :</b>	No
<b>Actual Answer Key :</b>	No

## DNB Radiation Oncology Paper1

<b>Group Number :</b>	1
<b>Group Id :</b>	3271872541
<b>Group Maximum Duration :</b>	0
<b>Group Minimum Duration :</b>	180
<b>Show Attended Group? :</b>	No
<b>Edit Attended Group? :</b>	No
<b>Group Marks :</b>	100
<b>Is this Group for Examiner? :</b>	No
<b>Examiner permission :</b>	Cant View
<b>Show Progress Bar? :</b>	No

## DNB Radiation Oncology Paper1

<b>Section Id :</b>	3271872544
<b>Section Number :</b>	1
<b>Section type :</b>	Offline

<b>Mandatory or Optional :</b>	Mandatory
<b>Number of Questions to be attempted :</b>	10
<b>Section Marks :</b>	100
<b>Enable Mark as Answered Mark for Review and Clear Response :</b>	Yes
<b>Maximum Instruction Time :</b>	0
<b>Sub-Section Number :</b>	1
<b>Sub-Section Id :</b>	3271872548
<b>Question Shuffling Allowed :</b>	No
<b>Is Section Default? :</b>	null

**Question Number : 1 Question Id : 32718725783 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. a) Write down the latest staging of breast tumors. [3]
- b) Describe the lymphatic drainage of breast with suitable diagram. [3]
- c) Describe the latest screening recommendations, early detection and diagnostic criteria for breast tumors. [4]

**Question Number : 2 Question Id : 32718725784 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) What are the common inherited cancers? [2]

b) Classify ovarian cancers. [3]

c) Describe the staging of ovarian cancer. How will you investigate the patient? [5]

**Question Number : 3 Question Id : 32718725785 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) Differentiate Hodgkin's and non-Hodgkin's lymphoma. [5]

b) Describe the pathology of Hodgkin's lymphoma. [5]

**Question Number : 4 Question Id : 32718725786 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 the different phases of a clinical trial? Define interim analysis, definitive analysis and secondary analysis giving one suitable example of each. [4+(2+2+2)]

**Question Number : 5 Question Id : 32718725787 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) What are the current guidelines for reporting Randomised Controlled Trials in Radiation Oncology. [5]

b) What is Randomised Controlled Double Blind trial? Give one example. [5]

**Question Number : 6 Question Id : 32718725788 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) Name the various Brachytherapy systems. [3]

b) Describe any one in detail. [4]

c) Mention three sites of Brachytherapy application. [3]

**Question Number : 7 Question Id : 32718725789 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) Describe various modifiers of radiation therapy. [5]

b) Describe various modifiers of chemotherapy. [5]

**Question Number : 8 Question Id : 32718725790 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) Describe the interaction of charged particle with matter. [5]

b) Describe in brief the evidence in support of use of charged particles in cancer treatment. [5]

**Question Number : 9 Question Id : 32718725791 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) Molecular targets in oncology. [5]

b) Linear quadratic equation. [5]

**Question Number : 10 Question Id : 32718725792 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) Simultaneous Integrated Boost: Explain with two examples. [5]

b) Accelerated versus Hyperfractionated Radiotherapy. [5]