

National Board of Examinations

Question Paper Name :	DNB Radiation Oncology Paper1
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DNB Radiation Oncology Paper1

Group Number :	1
Group Id :	3271872826
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Show Attended Group? :	No
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DNB Radiation Oncology Paper1

Section Id :	3271872829
Section Number :	1
Section type :	Offline
Mandatory or Optional :	Mandatory
Number of Questions :	10
Number of Questions to be attempted :	10
Section Marks :	100
Maximum Instruction Time :	0
Sub-Section Number :	1
Sub-Section Id :	3271872833
Question Shuffling Allowed :	No

Question Number : 1 Question Id : 32718729544 Question Type : SUBJECTIVE Consider As Subjective : Yes

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 the lymphatic drainage of:

- a) Testis. [4]
- b) Cervix. [3]
- c) Stomach. [3]

Question Number : 2 Question Id : 32718729545 Question Type : SUBJECTIVE Consider As Subjective : Yes

Correct Marks : 10

- a) Using a schematic diagram the various levels of lymph nodes in the neck. [4]
- b) Latest AJCC staging of oral cavity cancers. [3]
- c) WHO classification of lung tumors. [3]

Question Number : 3 Question Id : 32718729546 Question Type : SUBJECTIVE Consider As Subjective : Yes

Correct Marks : 10

- a) Enumerate the steps involved in a Phase III clinical trial and its impact on treatment guidelines. [4]
- b) The need to define a patient population, randomization and stratification. [2]
- c) What are univariate and multivariate analysis? [2]
- d) What are the various types of DVH? What are the advantages of DVH? [2]

Question Number : 4 Question Id : 32718729547 Question Type : SUBJECTIVE Consider As Subjective : Yes

Correct Marks : 10

Describe the histological classification and staging of Non-Hodgkin's lymphoma. [5+5]

Question Number : 5 Question Id : 32718729548 Question Type : SUBJECTIVE Consider As Subjective : Yes

Correct Marks : 10

- a) Carbon Ion Therapy. [5]
- b) LDR versus HDR Brachytherapy. [5]

Question Number : 6 Question Id : 32718729549 Question Type : SUBJECTIVE Consider As Subjective : Yes

Correct Marks : 10

- a) True positive and False positive. [2]
- b) Positive and Negative Predictive Value. [2]
- c) Confidence Interval. [3]
- d) Odds ratio and Hazard ratio. [3]

Question Number : 7 Question Id : 32718729550 Question Type : SUBJECTIVE Consider As Subjective : Yes

Correct Marks : 10

- a) Various beam modification devices used in Radiotherapy. [5]
- b) Various types of wedge filters used in clinical practice and the rationale for use of this device. [5]

Question Number : 8 Question Id : 32718729551 Question Type : SUBJECTIVE Consider As Subjective : Yes

Correct Marks : 10

- a) Meta analysis. [2]
- b) List the components of a Forest Plot. [2]
- c) Take any two examples of Meta analysis and describe how the results of a meta analysis serve to change clinical practice. [3+3]

Question Number : 9 Question Id : 32718729552 Question Type : SUBJECTIVE Consider As Subjective : Yes

Correct Marks : 10

- a) Various devices used for radiation monitorings. [4]
- b) Rationale, structure, advantages and disadvantages of any one personal monitoring device. [6]

Question Number : 10 Question Id : 32718729553 Question Type : SUBJECTIVE Consider As Subjective : Yes

Correct Marks : 10

Recommendations for:

- a) Cancer screening using one tumor site as example. [5]
- b) Describe the various types of cancer registries that are available. [5]