

# National Board of Examinations

<b>Question Paper Name :</b>	DNB Radiation Oncology Paper3
<b>Subject Name :</b>	DNB Radiation Oncology Paper3
<b>Creation Date :</b>	2022-06-25 17:21:18
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## DNB Radiation Oncology Paper3

<b>Group Number :</b>	1
<b>Group Id :</b>	3271871179
<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>Break time :</b>	0
<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 Paper3

<b>Section Id :</b>	3271871182
<b>Section Number :</b>	1

**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 :** 3271871186  
**Question Shuffling Allowed :** No

**Question Number : 1 Question Id : 32718710842 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction 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. a) Describe the latest updates in the classification of brain tumours. [3]  
b) What are the treatment options you would offer for a patient aged greater than 70 years diagnosed with Glioblastoma multiforme - Evidence and treatment schedules? [4+3]

**Question Number : 2 Question Id : 32718710843 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

- a) What is the rationale and molecular basis of combining immunotherapy with radiotherapy? [4]  
b) Explain the role of immunotherapy in non-small cell lung cancer. [6]

**Question Number : 3 Question Id : 32718710844 Question Type : SUBJECTIVE Consider As**

**Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

- a) What is the evidence for total neoadjuvant treatment in rectal cancer? [5]
- b) Describe the techniques of radiotherapy in anal cancer. [5]

**Question Number : 4 Question Id : 32718710845 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

- a) Describe the role and techniques of radiotherapy in retinoblastoma. [5]
- b) What are the nuances in radiotherapy to the paediatric age group? [5]

**Question Number : 5 Question Id : 32718710846 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

- a) Describe the role of radiotherapy in extramedullary plasmacytoma - indications, technique and dose fractionation. [2+3]
- b) Describe the staging and basic chemotherapy regimens of multiple myeloma. [5]

**Question Number : 6 Question Id : 32718710847 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

- a) What are the differential diagnosis and investigations required to evaluate a 5-year-old boy with a nasopharyngeal mass? [5]
- b) Describe the management and role of radiotherapy in the management of parameningeal rhabdomyosarcoma. [5]

**Question Number : 7 Question Id : 32718710848 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

- a) Describe the genetic basis and syndromes associated with colon cancer. [5]
- b) What advice would you give to a patient and her family, if she has been diagnosed with stage 2, triple negative breast cancer and is BRCA positive? [5]

**Question Number : 8 Question Id : 32718710849 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

a) Describe the use of morphine in cancer pain management. [5]

b) Describe the role of palliative care in Oncology. [5]

**Question Number : 9 Question Id : 32718710850 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

a) Enumerate the drugs, sign-symptoms and management of cardiotoxicity during cancer treatment. [5]

b) How do you diagnose and manage radiation related pneumonitis? [5]

**Question Number : 10 Question Id : 32718710851 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

a) Describe MR guided brachytherapy in carcinoma cervix. [5]

b) How would you manage a case of carcinoma stage IIIB presenting in casualty with massive bleeding, resulting in a haemoglobin of 4.2g/dl? [5]