

National Board of Examinations

Question Paper Name :

DNB Radiation Oncology Paper3

Subject Name :

DNB Radiation Oncology Paper3

Duration :

180

Total Marks :

100

Display Marks:

No

Maximum Instruction Time :

0

Question Number : 1 Question Id : 32718733594 Consider As Subjective : Yes

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) Enumerate the common isotopes used for unsealed radionuclide therapy of bone metastases. Briefly mention the dosage schedules. [4]
b) Describe the role of radiotherapy in bone metastasis, evidence of various fractionation and stereotactic radiotherapy. [6]

Question Number : 2 Question Id : 32718733595 Consider As Subjective : Yes

- a) What is the rationale and molecular basis of combining immunotherapy with radiotherapy. [4]
b) Enumerate any six classes of common chemotherapeutic agents along with brief mention of their mode of action and clinical usages. [6]

Question Number : 3 Question Id : 32718733596 Consider As Subjective : Yes

- a) Discuss the role of radiotherapy in soft tissue sarcoma of lower limb. [5]
b) Mention updates in the role of radiotherapy in retroperitoneal soft tissue sarcoma. [5]

Question Number : 4 Question Id : 32718733597 Consider As Subjective : Yes

- a) Advantages and disadvantages of different chemoradiation sequencing strategies. [5]
b) Common molecular targeted therapies in combination with radiation or chemoradiation. [5]

Question Number : 5 Question Id : 32718733598 Consider As Subjective : Yes

- a) How is solitary plasmacytoma diagnosed? Describe the role of radiotherapy in the same. [2+2]
- b) Describe the staging and basic chemotherapy regimens used in the treatment of multiple myeloma. [3+3]

Question Number : 6 Question Id : 32718733599 Consider As Subjective : Yes

- a) What is the evidence for total neo-adjuvant therapy in rectal cancer? [5]
- b) Describe the techniques in radiotherapy for anal canal cancer. [5]

Question Number : 7 Question Id : 32718733600 Consider As Subjective : Yes

Osteogenic sarcoma:

- a) Principles of bone biopsy. [2.5]
- b) Fertility consultation before starting primary therapy in a young adult. [2.5]
- c) Any preferred chemotherapy regimen and dosage schedule in neoadjuvant scenario. [2.5]
- d) Role of adjuvant radiotherapy. [2.5]

Question Number : 8 Question Id : 32718733601 Consider As Subjective : Yes

- a) Enumerate various hormonal and targeted therapy agents used in prostate cancer therapy. [5]
- b) Principles of androgen deprivation therapy for M0 Castration- Sensitive cancer prostate. [5]

Question Number : 9 Question Id : 32718733602 Consider As Subjective : Yes

- a) Describe the causes and management of cardiotoxicity due to cancer treatment. [5]
- b) Describe the WHO pain ladder management in cancers. [5]

Question Number : 10 Question Id : 32718733603 Consider As Subjective : Yes

Skin cancers:

- a) Role of radiotherapy in Basal cell carcinoma. Pros and cons of radiotherapy and surgery. [3+2]
- b) How will you decide between the various techniques of radiation while treating a skin cancer? [5]