

# National Board of Examinations

**Question Paper Name :** DNB Radiation Oncology Paper3

**Is this Group for Examiner? :** No

**Enable Mark as Answered Mark for Review and Clear Response :** Yes

## **Question Number : 1 Question Type : SUBJECTIVE**

- a) What is the definitive treatment of skull base chondrosarcoma? [4]
- b) Name two genetic syndromes associated with sarcoma. [3]
- c) What is the risk of lymph node metastasis in various types of soft tissue sarcoma? [3]

## **Question Number : 2 Question Type : SUBJECTIVE**

- a) Types of malignant melanoma. [5]
- b) Recent systemic agents for metastatic melanoma. [5]

## **Question Number : 3 Question Type : SUBJECTIVE**

- a) Which cancers are associated with predominantly blastic bone metastasis? [2]
- b) Which cancers are associated with predominantly lytic bone metastasis? [2]
- c) Discuss in detail how will you manage a case of metastatic carcinoma prostate with special reference to disseminated bony metastases and various radiopharmaceuticals used in the management. [6]

## **Question Number : 4 Question Type : SUBJECTIVE**

- a) What is keloid and hypertrophic scars? [5]
- b) Radiotherapy in management of keloids. [5]

**Question Number : 5 Question Type : SUBJECTIVE**

- a) How does cancer evade the immune system? [3]
- b) Name four major types of immunotherapy. [3]
- c) Discuss in detail about Pembrolizumab: mechanism of action, indications, contraindications and adverse effects. [4]

**Question Number : 6 Question Type : SUBJECTIVE**

- a) What is hereditary breast and ovarian cancer syndrome? [5]
- b) What would you counsel a 29-year-old lady with triple negative breast cancer post mastectomy who has a positive family history? [5]

**Question Number : 7 Question Type : SUBJECTIVE**

- a) What is MGMT and its importance? [3]
- b) Enumerate various chemotherapy drugs used in the management of High grade gliomas and discuss the role of temozolamide in high grade gliomas. [4]
- c) Briefly discuss tumour treating fields in the management of high grade glioma. [3]

**Question Number : 8 Question Type : SUBJECTIVE**

- a) Prevention and management of radiation induced mucositis in head and neck cancers. [5]
- b) Indications and evidence for Trastuzumab in carcinoma breast and carcinoma stomach. [5]

**Question Number : 9 Question Type : SUBJECTIVE**

- a) Role of neoadjuvant chemoradiotherapy in carcinoma esophagus and junctional tumors. [5]
- b) Chemoradiotherapy in locally advanced head and neck cancers and discuss the MACH-NC meta-analysis. [5]

**Question Number : 10 Question Type : SUBJECTIVE**

Classify epidermal growth factor receptors. Discuss the role of Lapatinib in modern practice of oncology. [6+4]