

**B.Sc. RADIOTHERAPY TECHNOLOGY  
SECOND YEAR  
PAPER II – PRINCIPLES OF RADIOTHERAPY**

*Q.P. Code: 801912*

**Time: Three Hours**

**Maximum : 100 Marks**

**Answer All Questions**

**I. Elaborate on:**

**(3 x 10 = 30)**

1. Early and late reaction on skin due to radiation.
2. Tumor Staging workup and TNM.
3. Explain pediatric tumors.

**II. Write Notes on:**

**(8 x 5 = 40)**

1. Briefly explain carcinoma, sarcoma and lymphoma.
2. What are occupational cancers? Explain any two examples.
3. Explain the use of radiotherapy for hemostasis.
4. What is squamous cell carcinoma? How does it spread?
5. What is radiation proctitis? How can it be prevented?
6. Write a note on Lehermitte's syndrome.
7. Compare benign and malignant tumours.
8. Write a detailed note on thyroid cancer.

**III. Short Answers on:**

**(10 x 3 = 30)**

1. What is the effect of radiation on reproductive organs?
2. How do we measure quality of life in cancer care?
3. Mention the late effects of radiation treatment.
4. What is breast self examination (BSE)?
5. What are the organs at risk in head and neck cancer radiotherapy?
6. Why do we correct anemia in patients before radiotherapy is initiated?
7. What is biopsy?
8. What is mediastinal syndrome?
9. Most common benign tumors of the oral cavity.
10. What is an Intravenous pyelogram? Mention its purpose in radiotherapy

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