

B.Sc. RADIOTHERAPY TECHNOLOGY
(New Syllabus 2014-2015)

SECOND YEAR

PAPER I – TUMOR PATHOLOGY AND RADIOTHERAPY APPLICATIONS

Q.P. Code: 801931

Time: Three Hours

Maximum : 100 Marks

Answer All Questions

I. Elaborate on:

(3 x 10 = 30)

1. Discuss the role of radiotherapy for carcinoma prostate with special mention of brachytherapy methods.
2. Classify Lymphomas. What is Involved Field Radio Therapy (IFRT)? Discuss the methods of delivering IFRT.
3. List the indications of Cranio Spinal Irradiation (CSI). Discuss the precautions to be taken prior to planning a child of 8 years for CSI. Discuss in detail the technique and the radiotherapy prescription.

II. Write Notes on:

(8 x 5 = 40)

1. Write short notes on precancerous lesions.
2. Classify neoplasms based on cell of origin.
3. What are the histological types of thyroid malignancy? Mention the best prognostic histological type.
4. Explain the radiotherapy planning for palliation of painful vertebral metastases.
5. Discuss the radiotherapy techniques used for treating craniopharyngioma.
6. List the benign conditions which benefit with treatment with radiotherapy? Discuss the dose, fractionation and technique of one of the benign conditions.
7. What the side effects of cytotoxic chemotherapy?
8. Carcinogenesis.

III. Short Answers on:

(10 x 3 = 30)

1. List the side effects of radiotherapy to chest wall of a patient with carcinoma of left breast.
2. What is extended field of radiotherapy? Where is it used?
3. Define neoplasia.
4. Name the major and minor salivary glands. What is the commonest histology of malignancy of salivary glands?
5. Effect of radiotherapy on reproductive organs.
6. Mention two drugs used concurrently with radiation. Explain how it influences Treatment.
7. Anatomy, lymphatic drainage and pathology of carcinoma of oesophagus.
8. Hormonal management of breast cancer.
9. Discuss the pathology of skin cancers.
10. Discuss the boost techniques of carcinoma breast after breast conservation surgery and completion of whole breast irradiation.
