

[LH 0815]

AUGUST 2015

Sub.Code :1913

**B.Sc. RADIOTHERAPY TECHNOLOGY  
SECOND YEAR  
PAPER III – RADIOTHERAPY THCHNIQUES**

*Q.P. Code: 801913*

**Time: Three Hours**

**Maximum : 100 Marks**

**Answer All Questions**

**I. Elaborate on:**

**(3 x 10 = 30)**

1. Discuss various immobilization devices.
2. Elaborate on the principles of radiotherapy techniques of craniospinal irradiation.
3. Explain the principles of interstitial brachytherapy.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Monoisocentric technique in the treatment of carcinoma breast.
2. Explain techniques for treating carcinoma rectum.
3. Explain any two radionuclide investigations.
4. Preparing a patient on first day of teletherapy.
5. Treatment technique for treatment of malignant brain tumor.
6. Describe the steps in making a mould for a patient.
7. Gating in external beam therapy.
8. Radiotherapy techniques in carcinoma maxilla.

**III. Short answers on:**

**(10 x 3 = 30)**

1. Tissue compensators.
2. Intra luminal radiation.
3. Hypo fractionation.
4. IMRT.
5. Surface mould.
6. Define “Point A”, “Point B” in brachytherapy for carcinoma cervix.
7. Define LDR, MDR and HDR in brachytherapy.
8. Lasers in patient positioning.
9. Stereotactic Radio Surgery.
10. Electron beam therapy.

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