

[LD 0212]

AUGUST 2013

Sub.Code :1913

B.Sc. RADIOTHERAPY TECHNOLOGY

SECOND YEAR

PAPER III – RADIOTHERAPY TECHNIQUES

Q.P. Code: 801913

Time: Three hours

Maximum : 100 Marks

Answer All questions

I. Elaborate on:

3 x 10 = 30

1. Discuss various teletherapy techniques in the treatment of carcinoma cervix
2. Total skin electron beam therapy technique
3. Benign conditions where radiation therapy is indicated

II. Write notes on

8 x 5 = 40

1. Single is center technique in the treatment of carcinoma breast
2. Indications for Intra luminal radiation
3. Name 2 radionuclide investigations
4. Preparing a patient on first day of teletherapy
5. Treatment technique for treatment of malignant brain tumor
6. Treatment techniques for orbital tumors
7. Image gating in external beam therapy
8. Describe craniospinal radiation

III. Short answers on

10 x 3 = 30

1. Gynaec brachytherapy applicators
2. Magnetic Resonance Imaging
3. Name 3 techniques for treating carcinoma rectum
4. Dwell position
5. Dose volume histogram (DVH)
6. Interstitial implant
7. Tomotherapy
8. Hypo fractionation
9. Hyper fractionation
10. Half value Layer
