

[LE 0212]

FEBRUARY 2014

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 immobilization devices
2. Elaborate on treatment techniques for carcinoma maxillary antrum
3. Different brachytherapy methods and its uses

II. Write notes on:

8 x 5 = 40

1. Radiotherapy simulation for cranial radiation
2. Barium swallow localization in carcinoma esophagus
3. Radiotherapy in pituitary tumors
4. Treatment setting for middle ear tumor
5. Tumor localization by ultrasound
6. Treatment techniques for pelvic tumors
7. Use of wedges in external beam therapy
8. Sealed radioactive sources

III. Short answers on:

10 x 3 = 30

1. Compensators
2. Mammogram
3. Name 3 techniques for treating carcinoma esophagus
4. Describe field borders for treating carcinoma nasopharynx
5. CT scan in tumor localization
6. On board imaging
7. Describe the eye shield
8. Describe the steps in making a mould for a patient
9. Monitory units
10. Cobalt 60
