

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

SECOND YEAR

PAPER III – RADIOTHERAPY TECHNIQUES

Q.P. Code: 801933

Time: Three Hours

Maximum: 100 Marks

Answer all questions

I. Elaborate on:

(3 x 10 = 30)

1. Brachytherapy.
2. Describe indication, technique, dose and complication of radiotherapy in carcinoma cervix.
3. Principles and basics of chemoradiation.

II. Write notes on:

(8 x 5 = 40)

1. SSD technique.
2. Tomotherapy.
3. Gamma knife.
4. Half beam block technique.
5. Workflow of conformal radiotherapy.
6. Radiotherapy techniques in carcinoma glottic larynx stage I disease.
7. Intraluminal brachytherapy in carcinoma oesophagus.
8. 4r's and its relevance in radiotherapy.

III. Short answers on:

(10 x 3 = 30)

1. Mention six beam modifying devices.
2. Low dose rate brachytherapy.
3. What are radiosensitisers and mention any five?
4. Advantages of intraoperative radiotherapy.
5. Wedges in radiotherapy.
6. Hypofractionation.
7. Mammogram.
8. Lasers in radiotherapy.
9. Post head and neck radiotherapy complications.
10. Field borders for chest wall radiotherapy in carcinoma breast.