

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. Describe the indications, technique, dose and complications of radiotherapy in pituitary adenoma.
2. Describe staging of carcinoma of carcinoma of vocal cord and management of a patient with stage I disease.
3. Describe staging and preoperative long course radiotherapy for carcinoma of rectum.

II. Write notes on: **(8 x 5 = 40)**

1. Radiotherapy techniques in carcinoma of maxilla.
2. Role of CT in radiotherapy planning.
3. Brief note on Wedges.
4. Indications and techniques of prophylactic cranial radiotherapy.
5. Quality assurance in Cobalt 60 machine.
6. Write a note on bolus and clinical use.
7. Treatment planning in Stereotactic Radiation Therapy (SRT).
8. Techniques of radiotherapy in the treatment of carcinoma of upper third esophagus.

III. Short answers on: **(10 x 3 = 30)**

1. Post operative radiotherapy for carcinoma lung.
2. Adaptive radiotherapy.
3. Brachytherapy in carcinoma of esophagus.
4. Post head and neck radiotherapy complications.
5. SSD treatment.
6. Radiotherapy for brain secondaries.
7. Electronic Portal Imaging Device (EPID).
8. Properties and clinical use of Proton beam therapy.
9. Indications and details of radiotherapy in secondaries bone.
10. Imaging for head and neck tumours.
