

**B.Sc. in Radiation Therapy Technology (BRTT)**

**Term-End Examination**

**June, 2012**

00111

**BAHI-039 : RADIOTHERAPY PROCESS AND  
CONVENTIONAL TECHNIQUES**

*Time : 3 Hours*

*Maximum Marks : 70*

---

**PART - A**

Write short notes on *any six* of the following. Each carries 5 marks.

**5x6=30**

1. Different types of immobilisation devices in the department of radiotherapy.
2. Simulators and virtual simulators.
3. Procedure where inverse planning done.
4. Informed consent and legality.
5. Customized shielding.
6. Different types of wedges and purpose of using wedges.
7. Image fusion.
8. Mouth bite and tongue depressor.
9. Portal Imaging Verifications.

## PART - B

Answer *any four* questions. Each carries **10** marks.

**10x4=40**

1. Describe various quality assurance tests to be performed on a tele cobalt unit.
2. What are the signs and symptoms of Ca. Cervix ? Describe the treatment technique for carcinoma cervix of stage III - using linear accelerator.
3. Explain the signs and symptoms of Carcinoma Breast. Describe the treatment technique for stage II Ca. Breast with the precautions taken during treatment and after care advice for the patient.
4. Describe treatment technique for a patient diagnosed as Ca. rectum and care of colostomy during immobilisation and during treatment.
5. Describe in sequence the process for a IGRT of a patient having carcinoma of prostate with treatment technique and care.
6. As per ICRU 50, describe different volumes. Explain isodose curves and its role.
7. Describe the treatment technique for a patient suffering from stage II Ca. Nasopharynx using cobalt 60 machine. What are the expected reactions and management ?