

**B.Sc. IN RADIATION THERAPY TECHNOLOGY  
(BRTT)**

**Term-End Examination**

**December, 2012**

**BAHI-034 : RADIOTHERAPY EQUIPMENT AND  
PHYSICS**

*Time : 3 hours*

*Maximum Marks : 70*

**PART-A**

Answer *any five* questions.

1. Describe total skin electron therapy(TSET) and its clinical indication . 8
2. Describe the different brachytherapy techniques and their clinical application. 8
3. What are the principles of ortho-voltage therapy and their clinical rise. 8
4. Image guided brachytherapy procedure and clinical application. 8
5. Explain about available personal monitoring devices and write a note on TLD. 8
6. Conformal radiotherapy technique and clinical use. 8
7. Describe a Tele cobalt machine with help of a diagram. 8

## PART-B

Short notes on *any 5* of the following :

1. Radio isotopes used in brachytherapy. 6
  2. CT simulator 6
  3. Portable imaging devices 6
  4. Radiation field analyzer 6
  5. Tissue air ratio and dose calculation. 6
  6. Electron Beam Therapy 6
  7. Beam collimation in Teletherapy. 6
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