

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

**Term-End Examination**

**June, 2013**

**BAHI-042 : RADIOTHERAPY PROCESS - II AND  
ADVANCED TECHNIQUES**

*Time : 3 hours*

*Maximum Marks : 70*

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**PART - A**

Answer *any five* questions. Each question carries  
8 marks. 5x8=40

1. How will you manage planning and treating a 4 year old child comes for radiotherapy for post operative Wilm's tumor ?
2. Discuss various methods of brachytherapy and its clinical applications.
3. Describe the treatment technique for middle third oesophagus.
4. Mention any two benign conditions for which radiotherapy is given; give details about techniques and dose.

5. What are the precautions you will take when a patient with carcinoma cervix stage II B comes for simulation, external radiotherapy and brachytherapy ?
  
6. What is IMRT ? Write in detail about immobilisation, imaging and treatment delivery required for IMRT.
  
7. Describe treatment technique for a patient diagnosed with carcinoma rectum and care of colostomy during simulation and treatment.
  
8. Write elaborately the management of Astrocytoma Grade III.

**PART - B**

9. Write short notes on *any five* of the following.  
Each carries six marks. **5x6=30**

- (a) Oral and skin reactions.
  - (b) TNM staging.
  - (c) Cerrobend block and Bolus.
  - (d) Vaginal mould.
  - (e) Prophylactic radiotherapy.
  - (f) Total Body Irradiation (TBI).
  - (g) HDR, LDR and MDR.
  - (h) Ewing's sarcoma.
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