

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

Term-End Examination

June, 2014

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

Time : 3 hours

Maximum Marks : 70

PART - A

Answer any five questions. Each carries 8 marks.

5x8=40

1. Describe the technique for radiation therapy of astrocytoma grade III and what kind of reaction will you expect during radiation treatment of skull region ?
2. Briefly describe the stages of carcinoma of the cereix. Give details of the treatment of a patient with stage III B and what problem occur during and after treatment ?
3. How will you treat an early carcinoma of larynx with ray cast ? What reaction do you expect and how can it be managed ?
4. What are the treatment modalities available for Carcinoma Breast ? What are the instructions and advice given during treatment ?

5. Describe the grading of skin and mucosal reaction.
6. Describe the treatment technique for carcinoma prostate.
7. What are the advantages and disadvantages seen in HDR and LDR in Radiotherapy Department ?
8. What is IGRT ? Write in detail about immobilisation, imaging and treatment delivery.

PART - B

9. Write short notes on **any five** of the following.
Each carries **six** marks. **5x6=30**
 - (a) Simulator
 - (b) Prophylactic radiotherapy
 - (c) Wedge filter
 - (d) Electron therapy
 - (e) Normal tissue tolerance for vital organs
 - (f) Immobilization devices
 - (g) Isodose curve
 - (h) Arc-Therapy
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