

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

Term-End Examination

December, 2012

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

Time : 3 hours

Maximum Marks : 70

PART - A

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

1. What are the differences between external beam radiation therapy and brachytherapy ?

2. A patient is on radical radiotherapy for carcinoma of tongue. What are the reactions you will expect and how will you help the patient while experiencing such side effects ?

3. Mention the natural history of breast cancer. What are the treatment modalities available for breast cancer ? What will you instruct a patient who is undergoing post mastectomy radiotherapy ?

4. How will you manage a 2 year old child which needs cranial prophylaxis ?
5. Describe the technique used in the treatment of carcinoma cervix. What is the role of radiotherapy technologist ?
6. What are the acute and late side effects of radiotherapy following treatment of carcinoma breast, tongue and bladder ?
7. Describe in detail the various techniques available for carcinoma of larynx T1N0M0.
8. Mention the differences between conformal and conventional radiotherapy Techniques.

PART - B

Write short notes on *any five* of the following.

Each carries *six* marks.

5x6=30

- (a) What are the dose limits for eye, spine, bladder, rectum and brain stem using conventional fractionation.
 - (b) SRS, SRT and IMRT.
 - (c) Beam modifying devices.
 - (d) Radical and palliative treatment.
 - (e) Define : Trismus, Leukoplakia, Epilation, Proctitis, Cystitis and Xerostomia.
 - (f) Hyperfractionation.
 - (g) Radiation Myelitis.
 - (h) Radiosensitizers.
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