

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

Term-End Examination

December, 2015

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

Time : 3 hours

Maximum Marks : 70

*Note : There are nine questions. Attempt any six questions.
Question No. 9 is compulsory.*

1. Describe Crainospinal Radiation. 8
2. Explain the three techniques for treating carcinoma rectum. 8
3. Discuss the different approaches for applying portal imaging for INVIVO DOSIMETRY. 8
4. Describe the treatment techniques for orbital tumours. 8
5. Describe Intensity Modulated Radio Therapy (IMRT). 8
6. Explain total skin electron beam therapy technique. 8

7. Describe the various teletherapy techniques in the treatment of carcinoma cervix. 8
8. What are the precautions to be taken when treating patients with Metastatic Spinal Cord Compression ? And what is SRT ? 8
9. Write short notes on **any five** of the following : 5x6=30
- (a) Linear Energy Transfer.
 - (b) Beam characteristics of heavy particle.
 - (c) Brachytherapy.
 - (d) Commonly used radio nuclides for RT. (atleast 4)
 - (e) Mould Room.
 - (f) Target Volume and Organ at risk.
 - (g) Normal tissue tolerance for vital organs.
 - (h) Total body irradiation.
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