No. of Printed Pages : 2

B.Sc. IN RADIATION THERAPY TECHNOLOGY (BRTT)

Term-End Examination

June, 2013

0817 **BAHI-034 : RADIOTHERAPY EQUIPMENT AND** PHYSICS

Time : 3 hours

Maximum Marks : 70

PART-A

8x5 = 40Answer any five questions. Describe intra operative radiotherapy and 1. 8 mention its indications and advantages.

- 2. What is adaptive radiotherapy (ART) and what 8 are the clinical applications.
- 3. Describe principles, technique and advantages of 8 intensity modulated radiotherapy.
- 4. Describe high dose rate brachytherapy systems 8 and their clinical use.
- 5. Describe working of a Linear Accelerator with 8 diagram.
- 6. Beam directional and immobilization devices in 8 external radiotherapy.
- Stereo tactic irradiation technique, principles and 7. 8 indications.

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PART-B

Write short notes on *any five* of the following : 6x5=30

1.	Compensators and beam modifiers	6
2.	Radio isotopes used in Teletherapy	6
3.	Image guided radiotherapy and its advantages	6
4.	Virtual simulation	6
5.	Total body irradiation (TBI)	6
6.	Interaction of radiation with matter	6
7.	Properties of radio isotopes used in brachytherapy	6