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**BAHI-042**

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

00104

## Term-End Examination

## June, 2015

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

*Time : 3 hours* *Maximum Marks : 70*

### PART - A

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

1. Explain the following procedures for treatment of Ca. Breast : **3+3+2=8**
   (a) Immobilisation Techniques
   (b) Positioning with reason
   (c) To avoid the dose to lung

2. (a) What are the instructions to be given to head and neck cancers ? **4**
   (b) What are side effects for head and treatment ? **4**

3. What are the treatment modalities available for Ca. Cervix ? What are the side effects that can be expected during radiotherapy ? **4+4=8**

4. What are the radiation treatment modalities available for Ca. Oesophagus ? What are the critical structures to be spared ? Explain about beam arrangements for upper, middle and lower third oesophagus treatment. **3+2+3=8**

5. What is ImRT ? How the ImRT delivery is taken place ? What are the advantages over 3DCRT ? **3+3+2=8**

6. What are the imaging techniques available to verify the position of the patient on board ? What are the advantages of on board position verification ? **4+4=8**

7. What is branchytherapy ? What are the advantages of HDR branchytherapy ? What cases can be treated in branchytherapy ? **3+3+2=8**

8. Explain about planning and treatment procedures of Ca. Prostate. **8**

## PART - B

9. Write short notes on **any five** of the following : **6x5=30**
   (a) Wedge filter
   (b) Simulator
   (c) Xerostomia
   (d) VMAT technique
   (e) Compensators
   (f) Mantle field technique
   (g) German helmet technique
   (h) Bolus and its use