

**B.Sc. IN MEDICAL IMAGING TECHNOLOGY
(BMIT)**

**Term-End Examination
December, 2011**

**BAHI-51 : PHYSICS OF RADIOLOGICAL
EQUIPMENT - I**

Time : 3 hours

Maximum Marks : 70

PART - A

Answer *any five* questions.

8x5=40

1. Draw a diagram and label the parts of rotating anode X-Ray tube and describe the function of each part.
2. What is tomography ? Describe the various types of conventional tomography.
3. What is high tension generator ? Explain its structure and functions.
4. Define grid and describe various types of grids used for radiography.
5. What are filters ? List the various types of filters and state how they are used.

6. What is PACS ? Describe the advantages and disadvantages.
7. What are the different types of cones and diaphragms and explain how they are functioning ?
8. Explain the principle of PET-CT.

PART - B

9. Write notes on *any five*.

6x5=30

- (a) Conventional fluoroscopy.
 - (b) Mammography machine
 - (c) Automatic exposure Control devices
 - (d) Image noise.
 - (e) Types of Timers.
 - (f) Types of rectifiers.
 - (g) Dental X-Ray tube
 - (h) Laser camera.
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