

00236

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

Term-End Examination

June, 2013

**BAHI-051 : PHYSICS OF RADIOLOGICAL
EQUIPMENT - I**

Time : 3 Hours

Maximum Marks : 70

PART - A

Answer *any five* questions.

8x5=40

1. Draw a labelled diagram of metallic X - Ray tube.
How does it differs from conventional X - Ray tube.
2. Describe the construction and types of grid.
3. Describe various types of Rectification with their advantages and disadvantages.
4. Enumerate various beam limiting devices, give detailed account of any one.
5. What are filters, enumerate their types and uses in radiography.

6. Describe the principle of conventional tomography. Enlist various types of conventional tomography.
7. Explain PACS and enumerate its advantages.
8. What are flat panel detectors. Describe their utility in fluoroscopy.

PART - B

9. Write short notes on *any five* of the following. 6x5=30
- (a) Photo Stimulable Plates (PSP)
 - (b) Mammography X - Ray tube
 - (c) Image intensifier
 - (d) Factors affecting image resolution
 - (e) Principle of DSA
 - (f) PET - CT
 - (g) Dental X - Ray machine
 - (h) Laser camera
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