

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

Term-End Examination

December, 2012

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

Time : 3 Hours

Maximum Marks : 70

PART - A

Answer *any five* questions.

1. Describe the construction and functioning of mammography X - Ray tube. 8x5=40

2. What is grid ? Describe its construction, advantages and disadvantages.

3. What is DSA ? Explain its principle and advantages.

4. Describe the construction and care of intensifying screens.

5. What is PACS ? Enumerate its advantages and disadvantages.
6. With help of a labelled diagram explain the construction and functioning of image intensifier.
7. What are cones ? Describe their types and uses.
8. Describe the essential features of mobile X-Ray unit.

PART - B

9. Write notes on *any five* of the following : **6x5=30**
- (a) Conventional fluoroscopy
 - (b) Dental X -Ray machine for IOPA
 - (c) Automatic exposure control devices
 - (d) Factors affecting noise in a radiograph
 - (e) PET - CT
 - (f) Types of transformers
 - (g) Rectification
 - (h) Dry view camera
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