No. of Printed Pages : 3

BAHI-51

B.Sc. IN MEDICAL IMAGING TECHNOLOGY (BMIT)

Term-End Examination June, 2012

BAHI-51 : PHYSICS OF RADIOLOGICAL EQUIPMENT - I

Time : 3 Hours

00973

Maximum Marks : 70

PART - A

Answer any five questions.

8x5=40

- 1. Describe the construction and functioning of rotating anode X-Ray Tube.
- 2. What is tomography ? Describe the principle of tomography.
- 3. Explain about H.T. generator for X-Ray machines and its advantages.
- 4. What is grid ? Explain stationary and moving grids.
- 5. Differentiate between fluorosence and phosphoresence. Explain their uses in radiology.

BAHI-51

1

P.T.O.

- 6. Explain picture archiving and communication system (PACS).
- 7. Describe the construction and functioning of image intensifier (I.I.).

8. How the heat is dissipated in the X-ray tube ?

PART - B

9. Write notes on *any five* :

6x5=30

- (a) Flat panel digital fluoroscopy.
- (b) Mammography tube (X-Ray).
- (c) Automatic exposure control devices.
- (d) Light Beam Diaphragm (LBD).
- (e) Digital Subtraction Techniques.
- (f) Principle of Angio table (AOT).
- (g) Dental X-Ray machine.
- (h) Dry view camera.