

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

**Term-End Examination**

**December, 2016**

00273

**BAHI-057 : QUALITY ASSURANCE AND RADIATION  
PROTECTION IN RADIOLOGY**

*Time : 3 hours*

*Maximum Marks : 70*

*Note : Attempt any six questions. Question no. 8 is compulsory.*

1. Describe the radiation safety measures observed during installation of a routine radiography machine. 8
2. Explain how you will ensure radiation protection in children. 8
3. Discuss about collimator test tool and its use in quality assurance. 8
4. Describe the methods of dose reduction in fluoroscopy procedures. 8
5. Discuss in brief about AERB and RSO along with their role in Radio-diagnosis department. 8
6. Discuss about the rules and regulations of radiation protection. 8

7. Describe the various shielding devices used in Radio-diagnosis department. 8
8. Write short notes on any *five* of the following. Each note carries 6 marks :  $5 \times 6 = 30$
- (a) ICRP
  - (b) TLD Badge
  - (c) Step Wedge
  - (d) Multimeter
  - (e) Acceptance Test for CT
  - (f) Warming up of CT Equipment
  - (g) Preventive Maintenance
  - (h) Annual Dose Limits
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