

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

Term-End Examination

June, 2017

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

Time : 3 hours

Maximum Marks : 70

Note : Attempt any six questions. Question No. 9 is compulsory.

1. How will you ensure radiation protection of an unattended and unconscious young female patient ? 8
2. Describe the radiation safety measures of an fluoroscopy installation. 8
3. Discuss about the methods of dose reduction in CT. 8
4. Discuss about AERB and its role in Indian Radiology. 8
5. How will you ensure consistently good quality images on a DR system ? 8
6. Describe step wedge and wire mesh test tools. How will you use them ? 4+4

7. Discuss in detail about care of a CR Cassette and PSP. 8
8. Discuss about Cardinal Principals of radiation protection. 8
9. Write notes on **any five** of the following. Each note carries 6 marks. **6x5=30**
- (a) Shielding devices
 - (b) Personal dosimeters
 - (c) Maximum permissible dose limits
 - (d) QA of lead aprons
 - (e) ALARA
 - (f) Radiation Hazards
 - (g) Collimator test tool
 - (h) Acceptance test for CT
-