

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

Term-End Examination

June, 2014

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

Time : 3 hours

Maximum Marks : 70

PART-A

Answer **any five** questions. Each question carries
8 marks.

8x5=40

1. Describe in details about Personnel Monitoring Services for workers in X-ray department.
2. What do you know about AERB safety code for X-ray equipment installation ?
3. Describe the various directives to be followed in the cases of excess of exposures.
4. Define the shielding continuity in details.
5. Name the radiation safety devices and their specific uses.
6. Describe in detail how to perform quality assurance for radiological equipment of your choice.

7. Describe all the measures you will look for safe operation of equipment.
8. Name the various regulations, as prescribed for radiation safety and duties of radiation safety officer.

PART-B

Write short notes on **any five** of the following questions. Each question carries 6 marks. **6x5=30**

1. Shielding of X-ray room walls, doors and control room.
2. Acceptance Testing for a CT Machine.
3. Radiation Safety Survey report in short.
4. Radiation protection for female child.
5. Uses of Diagnostic reference levels.
6. Gradient field strength and procedure to detect the error in it.
7. Draw a layout of a typical X-ray room as per safety regulation and code prescribed by AERB.
8. Entrance - Skin - Exposure.
9. Acceptance criteria for a diagnostic skiagrams.