**BAHI-057** 

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

# Term-End Examination December, 2012

### 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*. 5x8=40

- Draw a diagram of room layout for installing a conventional X - ray machine and describe the specifications laid by AERB as a part of regulation.
- Describe the methods of performing reject analysis in a film based Conventional Radiology department.
- **3.** Describe in detail, how to perform acceptance testing for a CT machine.
- 4. Describe in detail how to perform quality assurance for LASER printer.

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P.T.O.

- 5. Describe in detail five basic methods to be performed as a part of routine QA for conventional radiography machine.
- 6. Discuss about a few dose reduction strategies to be followed in fluoroscopy.
- 7. Describe in detail routine QA required in a dark room for processing films.
- 8. How do you maintain log and record book in a secondary care hospital ?

#### PART - B

Write short notes on *any five* of the following. Each carries 6 marks. 5x6=30

- **1**. Spinning top
- 2. kVp meter
- 3. Survey meter
- 4. Exposure meter
- 5. Step wedge
- 6. Diagnostic reference levels
- 7. Stochastic effects
- 8. CT Dose Index

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