

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

**Term-End Examination
December, 2013**

BAHI-032 : RADIOGRAPHIC IMAGING

Time : 3 hours

Maximum Marks : 70

PART - A

Answer *any five* questions. Each question carries
8 marks. **5x8=40**

1. Explain the various radiation detectors and mention their advantages and disadvantages.
2. Explain in detail the various interactions of radiation with matter.
3. (a) What are the different types of natural radiation ?
(b) Explain some examples of applications of radioactive isotopes in medicine.
4. What are the biological effects of radiation ?
5. What are the different characteristics of X-rays and explain how X-rays are produced ?

6. What is fluoroscopy ? Describe its use in the medical field, the risks and safety measures to be observed.
7. Explain in detail the different types of radioactive decay.
8. What is hysteresis and describe its practical applications ?

PART-B

9. Write short notes on *any five* of the following.

Each carries *six marks*.

5x6=30

- (a) Radio activity
 - (b) Filters - types and uses
 - (c) Discovery of X-rays
 - (d) Self rectification
 - (e) Laws of Electromagnetic induction
 - (f) Rotating anode
 - (g) PET
 - (h) Tenth value layer
-