

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

**Term-End Examination**

00246

June, 2016

**BAHI-032 : RADIOGRAPHIC IMAGING**

*Time : 3 hours*

*Maximum Marks : 70*

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**Note :** Attempt *all* questions from Part A. Attempt any *four* questions from Part B. Attempt any *three* questions from Part C.

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**PART A**

1. Fill in the blanks. *10×1=10*
- (a) Metol is used in \_\_\_\_\_ .
  - (b) Calcium tungstate is used in \_\_\_\_\_ .
  - (c) Pyrex glass is used in \_\_\_\_\_ .
  - (d) Wire mesh test tool is used to \_\_\_\_\_ .
  - (e) Hydroquinone is a \_\_\_\_\_ agent.
  - (f) pH of developer solution should be \_\_\_\_\_ .
  - (g) Selenium is used in \_\_\_\_\_ .
  - (h) Nail marks are actually \_\_\_\_\_ artifacts.
  - (i) Base of X-Ray film is made of \_\_\_\_\_ .
  - (j) \_\_\_\_\_ is an example of non-screen film.

**2. Write short notes on the following :**

**5×2=10**

- (a) **Streak artifacts**
- (b) **Starter solution**
- (c) **Hydroquinone**
- (d) **Care of PSP**
- (e) **Safe light**

## PART B

*Attempt any four questions.*

$4 \times 5 = 20$

3. Describe digital radiography and its advantages.
4. Explain the various methods of replenishment in automatic processors.
5. Explain the image formation in a CR system.
6. Write a note on orthochromatic radiographic films.
7. Explain the construction of intensifying screen.

## PART C

*Attempt any three questions.*

$3 \times 10 = 30$

8. Describe the structure and functioning of Dry View Camera.
  9. Write an essay on the layout plan of a Dark Room.
  10. Describe in detail about various types of detectors used in DR systems.
  11. Give a detailed account of construction, care and storage of radiographic films.
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