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

**Term-End Examination
December, 2017**

BAHI-032 : RADIOGRAPHIC IMAGING

Time : 3 hours

Maximum Marks : 70

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

PART A

1. Fill in the blanks. 10x1=10
- (a) The relation between exposure and signal in case of digital radiography is _____.
 - (b) The full form of DAP meter is _____.
 - (c) Cesium Iodide in case of indirect digital radiography has _____ like structure.
 - (d) The Characteristic Curve for traditional film and processor system is also called _____.
 - (e) Gd_2O_2S in traditional radiographic imaging is used as _____.
 - (f) Test device to check the contact between film and screen in traditional cassette is _____.
 - (g) Direct digital radiography uses _____.

- (h) Non-screen film produces image with high _____ but at the cost of high _____ to the patient.
- (i) The most suitable color of dark room light is _____ for the traditional calcium tungsten screen-film system.
- (j) The target for conventional mammography system is _____.
2. Write short notes on the following : **5x2=10**
- (a) Optical Density
 - (b) Dynamic range of digital imaging
 - (c) Traditional film cassette
 - (d) Average Gradient
 - (e) Handling of CR screen

PART B

Attempt any four questions. **4x5=20**

- 3. Write advantages and disadvantages of digital radiography over film-screen radiography.
- 4. Explain the fixing in traditional film processing.
- 5. What is Intensifying Screen ? Describe its construction and function.
- 6. Write a note on Automatic Processor.
- 7. Write a note on artefacts in radiographic imaging.

PART C

Attempt any three questions.

3x10=30

8. Describe in detail the mechanism and function of Computed Radiography.
 9. Write in detail about indirect flat panel. What is fill factor ?
 10. (a) Write a note about soft copy Display.
(b) Write a note on artefacts in digital images.
 11. Write in detail about construction and function of Grid.
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