BAHI-032

B.Sc. IN MEDICAL IMAGING TECHNOLOGY (BMIT)

Term-End Examination

June, 2012

BAHI-032 : RADIOGRAPHIC IMAGING

Time : 3 hours

00303

Maximum Marks : 70

PART - A

Fill in the blanks :

10x1 = 10

- **1.** (a) The photosensitive material in x-ray film is
 - (b) _____ is used in combination with metal or phenidone as developing agent.
 - (c) The added filters rem are _____ x-rays and reduce the patient dose.
 - (d) The Image Intensifier input phosphor makes use of _____ crystal.
 - (e) The reciprocal of the exposure of the x-ray film is also known as ______ .
 - (f) Base of medical x-ray film is made up of
 - (g) _____ fog is caused by the failure of developing agents during film processing.

BAHI - 032

- (h) Crow's feet marks are due to ______ artifacts.
- (i) The fast film has ______ size grains compared to slow films.
- (j) The working distance between the safe light to the film should not be less than

2. Write *short notes* on the following :

5x2=10

- (a) Optical density.
- (b) Speed of the film.
- (c) Fluorescence and phosphorescence .
- (d) Super coat in film.
- (e) Film fog.

BAHI - 032

PART -B

Attempt any four questions :

- **3.** Describe in brief about the construction of an intensifying screen.
- **4.** Enlist the different methods of replenishment in automatic processing.
- 5. What are the different artifacts in conventional radiography (manual processing) and how they can be avoided ?
- 6. Explain the image formation in digital Radiography. (DR System)
- Enlist the precautions to be taken while planning for dark room illumination

BAHI - 032

P.T.O.

4x5 = 20

PART-C

Attempt any three questions : 10x3=30

- **8.** What is a characteristic curve ? Explain in detail about the different regions in the curve .
- **9.** Why film processing is required ? Explain the different steps in obtaining the final radiographic image.
- **10.** Enlist the different constituents. of a developer in automatic processors and write about their functions.
- **11.** Describe in detail about the construction, care and storage of a radiographic film.

BAHI - 032