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BAHI-032

00345

B.Sc. IN MEDICAL IMAGING TECHNOLOGY (BMIT)

Term-End Examination

December, 2012

BAHI-032 : RADIOGRAPHIC IMAGING

Time : 3 hours *Maximum Marks : 70*

PART - A

1. Fill in the blanks : **10x1=10**

   (a) The invisible image formed on the film is called _____ .

   (b) The base of a photographic film is made up of _____ .

   (c) The unsharpness resulting due to the big focal spot is _____ .

   (d) The protective coating in a x-ray film is called _____ .

   (e) Hurter and Driffield curve can also be called as _____ curve.

   (f) A high speed film requires exposure to produce a specific density than a slower speed film.

   (g) The emulsion layer consists of _____ suspended in the gelatin.

(h) The instantaneous emission of light from a substance by radiation is called _____.

(i) The rare earth screen are made up of _____

(j) A poor developer will act on unexposed grains and produce _____ fog.

2. Write short notes on the following : **5x4=20**

(a) Gamma in characteristic curve.

(b) Contrast of the film.

(c) Single emulsion film.

(d) Fast intensifying screens

(e) Safe lights.

PART-B

Attempt *any four* Questions : **4x10=40**

1. Describe in detail about the construction of a radiographic film.

2. Draw and describe the characteristic curve and explain how it is used.

3. Write in detail about the design and construction of a dark room.

4. List the constituents of developing solution and write their functions.

5. Explain in detail about the different manual processing artifacts and how they can be avoided.