

00274

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

**Term-End Examination
June, 2013**

BAHI-032 : RADIOGRAPHIC IMAGING

Time : 3 hours

Maximum Marks : 70

PART - A

1. Fill in the blanks : **10x1=10**
- (a) The layer of intensifying screen is made up of _____.
 - (b) The delayed emission of light from a substance even after radiation stop is called _____.
 - (c) The _____ screen are used when fine detail is required.
 - (d) The slow film has _____ grain size compared to fast films.
 - (e) The ratio of exposure without screen to that of the exposure with screen to produce the same density is called _____ factor.
 - (f) The degree of blackening produced on the film due to X-rays is termed as _____.

- (g) The characteristic curve is drawn between _____ and _____.
- (h) The tangent of the angle of slope of the straight line part of characteristic curve is defined as _____.
- (i) The image intensifier input phosphor make use of _____ crystal.
- (j) Crow's feet mark on the film are due to _____ artifact.

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

- (a) Basic fog
- (b) Supercoat of X-ray film
- (c) Geometrical unsharpness
- (d) Latent image
- (e) Safe light in dark room

PART-B

Attempt *any four* questions :

4x10=40

3. List the constituents of a fixer solution and explain their functions.
 4. Write in brief about the construction, care and maintenance of an intensifying screen.
 5. Draw and describe the construction of a radiographic film.
 6. What special precaution need to be taken when you plan for a dark room ?
 7. Write the construction of an automatic processor.
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