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BAHI-032

B.Sc. IN MEDICAL IMAGING TECHNOLOGY (BMIT)

1117

Term-End Examination
December, 2010

BAHI-032: RADIOGRAPHIC IMAGING

Maximum Marks: 70 Time: 3 hours PART - A $1 \times 1.0 = 10$ Fill in the Blanks: 1. is used as photosensitive (a) material in X - ray films. Rare-earth intensifying screens are (b) than non-rare-earth intensifying screens. In routine radiographic cassette _____ (c) intensifying screen is mounted first. The safe light should be mounted (d) high above the dry bench in dark room. With respect to developer PQ stands for (e) and Quinol. Nail marks are actually _____ (f) artifacts. The temperature of developer in automatic (g) processor should be _____.

| (h) | is used as active material to | |
|-----|--|---|
| | record image on CR plate. | |
| (i) | Cesium lodide is used in type | |
| | of flat detectors. | |
| (j) | is used to check film screen | |
| | contact in radiographic cassette. | |
| | | |
| Wri | te short notes on the following: 2x5=1 | (|
| (a) | H and D curve | |
| (b) | Transverse section of double side coated film. | |
| (c) | Care of PSR | |
| (d) | Hardener and fixer. | |
| (e) | | |

2.

PART - B

Attempt any four questions:

5x4=20

- 3. Describe essential conditions for storage of X ray films.
- 4. Explain the construction of manual processing tank with a suitable diagram.
- 5. Describe the structure of direct type flat panel detectors.
- 6. Describe the various methods of replenishment in automatic processors.
- 7. Explain CR image formation and the viewing process.

PART - C

Attempt any three questions:

10x3 = 30

- 8. Describe the layout plan of dark room.
- Describe in detail the constituents of developer in automatic processors along with the function of each.
- **10.** Describe the historical developments and advancements in fluoroscopy systems.
- **11.** Explain the formation and development of latent image.