

[LL 0817]

AUGUST 2017

Sub. Code: 1832

B.Sc. RADIOLOGY IMAGING TECHNOLOGY
SECOND YEAR
PAPER II – X-RAY FILM/IMAGE PROCESSING TECHNIQUES
(INCLUDING DARK ROOM TECHNIQUES)

Q.P. Code: 801832

Time: Three Hours

Maximum: 100 Marks

Answer all questions

I. Elaborate on: **(3 x 10 = 30)**

1. Discuss in detail about the construction of double coated X-ray film.
2. Describe in detail about the design of darkroom and its entrance.
3. Explain elaborately the X-ray film processing.

II. Write notes on: **(8 x 5 = 40)**

1. Describe the characteristic curve of X-ray film.
2. Explain the various film handling artifacts.
3. Discuss about absorption and conversion efficiency of screen.
4. Write briefly about screen film contact. How will you test for screen film contact?
5. Briefly explain the mechanism and theory of Latent image formation.
6. List out the constitution of fixer solution and explain their functions.
7. Discuss about manual versus automatic processing.
8. Maintenance of automatic film processor.

III. Short answers on: **(10 x 3 = 30)**

1. Describe Storage of X-ray Films.
2. Describe Crossover Effect.
3. Describe Luminescence.
4. Describe care of intensifying screens.
5. Describe Reciprocity law in screen film combination.
6. Describe Law of photochemistry.
7. Describe pH Scale.
8. Describe Safe Light.
9. Describe Cassette pass box.
10. Describe Laser camera.
