

[LM 0218]

FEBRUARY 2018

Sub. Code: 1404

**DIPLOMA IN RADIOLOGY IMAGING TECHNOLOGY
FIRST YEAR**

PAPER IV – X-RAY FILM/IMAGE PROCESSING TECHNIQUES

Q.P. Code : 841404

Time: Three Hours

Maximum: 100 Marks

Answer all questions

I. Elaborate on:

(3 x 10 = 30)

1. What is Intensifying screen? Describe the factors affecting the speed of intensifying screen.
2. Define Dark room, describe about various types of dark room entrance with suitable diagrams.
3. What is film sharpness? What are the factors affecting film sharpness?

II. Write notes on:

(10 x 5 = 50)

1. Describe about single coated X-ray film with diagram.
2. What are the factors alter the developing time?
3. Describe about the computed Radiography system.
4. What are the darkroom illumination techniques? Explain each of them.
5. Describe about characteristics curve of X-ray film.
6. Define X-ray cassette, describe about various types of X-ray cassette.
7. How will you maintain and cleaning of automatic processor equipment?
8. Define Rinsing, washing and drying.
9. What is silver recovery? Describe any one methods of silver recovery.
10. What are the constituents of fixer solution? Explain its function.

III. Short answers on:

(10 x 2 = 20)

1. Define Fluorescence.
2. What is Gelatin?
3. What is anti-Halo backing?
4. Define silver halide crystals.
5. Define pH scale.
6. What is Film Hopper?
7. Define Squeeze Roller.
8. Define Radiographic contrast.
9. What is activator?
10. Define Dental film.
