

[LD 0212]

AUGUST 2013 **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 film sharpness? What are the factors affecting film sharpness?
2. Explain about the chemical constituents of fixer and developer
3. Draw a cross section diagram of an intensifying screen and list its functions.

II Write notes on

10 x 5 = 50

1. Explain about the single coated X ray films.
2. How to test for light leakage in X-ray cassettes
3. List the factors affecting the speed of screen.
4. The tests for timers.
5. Describe about the characteristic curve of the X-ray film
6. List the advantages and disadvantages of day light system.
7. Explain about modern image processing rooms.
8. Care of processing equipment in a manual processor.
9. Unsharpness in the radiographic image.
10. List the types of intensifying screens and give their advantages.

III Write short answers on

10 x 2 = 20

1. What is a cassette pass box?
2. Why is pH scale important in processing?
3. Examples of rare screen materials
4. What is a base and what is it made of?
5. Explain about dental film
6. Explain about base fog
7. What are panchromatic films
8. Explain about replinisher.
9. Structure of single sided films.
10. What is safe light filter made up of?
