[LH 0815] **AUGUST 2015** **Sub Code: 1812**

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

Q.P. Code: 801812

Time : Three Hours **Maximum : 100 Marks**

Answer All questions.

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

1. Write in detail about the photographic characteristic of X – ray film.
2. Write in detail about the construction of intensifying screen.
3. Write the steps of film processing.

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

1. Quantum mottle.
2. Handling of exposed and unexposed films.
3. Single emulsion film.
4. Screen Phosphors.
5. Modulation transfer function.
6. Film density.
7. Penumbra.
8. Developing agents.

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

1. Dark room safe light.
2. Sodium thiosulphate.
3. Replenisher.
4. Gelatin.
5. Fog.
6. Fluorescence.
7. Factors affecting focal spot size.
8. Maintenance of Cassette.
9. Intensification factor.
10. Cleaning of automatic Processor.

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