

**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. Draw the cross section of Single Sided Emulsion Film and explain.
2. Describe various steps and methods of Manual Processing with illustrative diagram.
3. Explain in detail with appropriate diagrams, the construction of Intensifying Screens.

II. Write notes on:

(8 x 5 = 40)

1. Safe Light.
2. Penumbra.
3. Fluorescence.
4. Rare earth screens.
5. Artifacts in X-ray films.
6. Constructions of automatic film processor.
7. Uses of single coated X-ray film.
8. Types of X-ray Cassettes.

III. Short answers on:

(10 x 3 = 30)

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