

**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 automatic film processing.
2. Define radiographic contrast? Discuss various that affect contrast.
3. Describe in detail about the characteristic curve.

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

1. Film screen contact test.
2. Constituents of a developer.
3. Artifacts in X-ray films.
4. Rare earth screens.
5. Latent image.
6. Uses of single coated X-ray film.
7. Dark room.
8. Silver recovery.

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

1. Safe lights in dark room.
2. Halation.
3. Different sizes of screen-film cassettes.
4. Various speeds of intensifying screens.
5. Sodium thiosulphate.
6. Double sided film.
7. Curved cassette.
8. Grid.
9. Maintenance of cassette.
10. X-ray phosphors.

\*\*\*\*\*