

[AHS 0321]

MARCH 2021

Sub. Code: 1847

(AUGUST 2020 EXAM SESSION)

**B.Sc. RADIOGRAPHY AND IMAGING TECHNOLOGY****SECOND YEAR (Regulation 2018-2019)****PAPER II – X-RAY FILM/IMAGE PROCESSING TECHNIQUES INCLUDING  
DARK ROOM TECHNIQUES*****Q.P. Code : 801847*****Time: Three hours****Answer ALL Questions****Maximum: 100 Marks****I. Elaborate on:****(3 x 10 = 30)**

1. Discuss in detail about double coated X-ray film structure?
2. Discuss in detail about automatic film processing.
3. Define radiographic contrast? Discuss various that affect contrast?

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

1. Look Up Table data (LUT) in digital radiography.
2. Effect of blur on visibility of image.
3. Rare earth screens.
4. Artifacts in X-ray films.
5. Uses of single coated X-ray film.
6. Intensifying screen.
7. Dark room.
8. Types of cassettes.

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

1. Segmentation collimation mask.
2. Temperature in Developing.
3. Cassette pass box.
4. Tests for light leakage in X-ray cassette.
5. Screen mottle.
6. CR image phospho
7. Double sided film.
8. Gri
9. Sodium thiosulphate.
10. Dark room Processing faults.

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