

[LP 0819]

AUGUST 2019

Sub. Code: 1843

B.Sc. RADIOGRAPHY & IMAGING TECHNOLOGY
(New Syllabus 2018-2019)

FIRST YEAR

**PAPER III – RADIOGRAPHY EQUIPMENTS, MAINTENANCE AND
QUALITY CONTROL RELATED TO X-RAY ONLY**

Q.P. Code: 801843

Time: Three Hours

Maximum: 100 Marks

Answer all questions

I. Elaborate on:

(3 x 10 = 30)

1. Describe in detail, principle of image formation in Computed Radiography.
2. Describe with neat diagram, construction of X-ray mammography equipment.
3. Describe with neat diagram, various generations of computed tomography.

II. Write notes on:

(8 x 5 = 40)

1. Construction of stationary anode X-ray tube.
2. Battery operated X-ray unit.
3. Automatic Brightness Control.
4. PACS.
5. Mammographic cassette and film.
6. Intraoral Dental X-ray unit.
7. Theory of X-ray Tomography.
8. CT detectors.

III. Short answers on:

(10 x 3 = 30)

1. Inherent filtration.
2. Heat dissipation methods in X-ray tube.
3. Portable X-ray machine.
4. Disadvantages of direct fluoroscopy.
5. Fluoroscopic Table.
6. Charge coupled device.
7. Properties of tungsten.
8. OPG.
9. CT number.
10. Partial Volume artifact.
