

[LJ 0816]

AUGUST 2016

Sub Code: 1803

**B.Sc. RADIOLOGY IMAGING TECHNOLOGY /  
RADIO DIAGNOSIS TECHNOLOGY**

**FIRST YEAR**

**PAPER III – RADIO DIAGNOSIS EQUIPMENTS,  
MAINTENANCE AND QUALITY CONTROL**

*Q.P. Code: 801803*

**Time : Three Hours**

**Maximum : 100 Marks**

**Answer All questions.**

**I. Elaborate on:**

**(3 x 10 = 30)**

1. Explain in detail the basic imaging concepts in CT imaging.
2. Describe about the various flat panel detectors in x-ray imaging.
3. Describe in detail the various parts of a mammography equipment.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Image intensifier.
2. CR reader.
3. Stationary anode xray tube.
4. Vidicon camera.
5. Dental radiography.
6. Discuss about 3 artefacts in CT.
7. OPG.
8. Tube rating chart.

**III. Short answers on:**

**(10 x 3 = 30)**

1. Linear attenuation co-efficient.
2. Grid controlled xray tube.
3. Integrated timer.
4. Tomography.
5. CTDI.
6. Fluoroscence.
7. Angiography.
8. Effective dose.
9. Absorbed dose.
10. Filtration in xray imaging.

\*\*\*\*\*