

B.Sc. RADIOLOGY IMAGING 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. Describe in detail, the various types of digital radiography.
2. Describe with neat diagram, the construction and working of rotating anode X-ray tube.
3. Describe the construction of CT equipment.

II. Write notes on:

(8 x 5 = 40)

1. Grid Control X-ray tube.
2. Direct vision fluoroscopy.
3. Portable X-ray unit.
4. Why tungsten is used as target material in x-ray tube?
5. Image intensifier tube.
6. CR reader.
7. Scatter radiation.
8. Conventional X-ray tomography.

III. Short answers on:

(10 x 3 = 30)

1. Space Charge effect.
2. X-ray tube housing.
3. Automatic Brightness Control.
4. Spot film device.
5. Photostimulated luminescence.
6. Advantages of compression in mammography.
7. PACS.
8. OPG.
9. Multisection Cassette.
10. CT Number.