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. Explain the principle and function of a transformer.
2. Explain the principle of ultrasound scanner.
3. Discuss the computed Radiography system.

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

1. Diode.
2. Transformer loses.
3. MRI signal.
4. X-ray Generator circuit.
5. CT Image Quality.
6. Half Valve layer.
7. MRI magnet.
8. Interaction of ultra sound.

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

1. What is thermionic emission?
2. What is Heel effect?
3. Define nipple factor.
4. What is piezo electric effect?
5. List the advantages of 3-phase generator.
6. Why Hydrogen is used for MR Imaging?
7. Write the Larmor equation.
8. What is CT number?
9. Name the target materials used in Mammography.
10. List the advantages of digital radiography.

******