

[LJ 0816]

AUGUST 2016

Sub. Code: 1412

DIPLOMA IN RADIOLOGY IMAGING TECHNOLOGY
SECOND YEAR
PAPER II – EQUIPMENTS, BASIC TECHNIQUES OF MODERN
IMAGING MODALITIES

Q.P. Code: 841412

Time : Three Hours

Maximum : 100 Marks

Answer All questions.

I. Elaborate on:

(3 x 10 = 30)

1. Principle of CT scan and explain the types of generation.
2. Principles of MRI.
3. Explain the DR system.

II. Write Notes on:

(10 x 5 = 50)

1. Different types of transducer.
2. Spiral CT.
3. Superconducting magnet.
4. Construction of ultrasound probe.
5. Principle of mammography.
6. Advantages of CR and DR.
7. CT Detector.
8. Difference between CNR and SNR.
9. Explain the CR principle.
10. Describe the MRI contrast studies.

III. Short Answers on:

(10 x 2 = 20)

1. Doppler Effect.
2. What is Tesla?
3. Mammography grid.
4. Types of Doppler studies.
5. Explain the Mammography film.
6. Write different basic MRI sequence.
7. CT dose index.
8. Name two artifacts in MRI.
9. Name the crystal used in US.
10. Quality control and pediatric maintains.
