

[LO 0219]

FEBRUARY 2019

Sub. Code: 1402

DIPLOMA IN RADIOLOGY IMAGING TECHNOLOGY
FIRST YEAR
PAPER II – GENERAL PHYSICS, RADIATION PHYSICS AND
PHYSICS OF DIAGNOSTIC RADIOLOGY

Q.P. Code: 841402

Time : Three Hours

Maximum : 100 Marks

Answer All questions.

I. Elaborate on:

(3 x 10 = 30)

1. Describe in details with diagram about the Rotating Anode X-Ray Tube.
2. Explain in detail the factors Influencing the Quality and Quantity of X-rays.
3. With a clean Diagram, describe Rectification, Half – Wave and Full – Wave Rectification Circuit.

II. Write notes on:

(10 x 5 = 50)

1. Filament Circuit.
2. Focusing Cup.
3. X-Ray tube Housing.
4. Components of Generator.
5. Triode.
6. Space Charge Effect.
7. Properties of X-rays.
8. Automatic Exposure Control.
9. Short notes of Ionization chamber.
10. Grids.

III. Short answers on:

(10 x 2 = 20)

1. Inverse Square Law.
2. Ammeter.
3. Ionization.
4. Anode Heel Effect.
5. What is Focal spot?
6. Transformer Efficiency.
7. Thermionic Emission.
8. Anode angle.
9. Advantage of 3 – phase Generator.
10. Fluorescence.
