

[LL 1017]

OCTOBER 2017

Sub. Code: 3602

**P.G. DIPLOMA IN RADIOLOGY & IMAGING TECHNOLOGY EXAMS
PAPER II – RADIO DIAGNOSTIC EQUIPMENTS – INSTRUMENTATION,
RADIATION, SAFETY & QUALITY CONTROL**

Q.P. Code : 363602

Time : Three hours

Maximum : 100 Marks

I. Elaborate on:

(2 x 20 = 40)

1. Explain MRI Instrumentation in detail.
2. Explain CT Scanner Quality Assurance.

II. Write notes on:

(10 x 6 = 60)

1. Write a note on Auto Transformer.
2. Write note on MRI Artifacts.
3. Write note on Automatic Exposure Control.
4. Write note on CR reader.
5. Discuss Xenon gas CT Detector.
6. Discuss CTDI and DLP in CT Scanner unit.
7. Write responsibilities of employer in RPR 2004.
8. Discuss direct and indirect action of Radiation in cells.
9. Write about RF Coils in MRI.
10. Discuss Stochastic effects of Radiation.
