

[LP 1019]

OCTOBER 2019

Sub. Code: 1801

**M.Sc. RADIOLOGY AND IMAGING TECHNOLOGY EXAMS
FIRST YEAR
PAPER I – RADIOLOGICAL PHYSICS**

Q.P. Code : 281801

Time: Three hours

Maximum : 100 Marks

I. Elaborate on:

(2 x 20 = 40)

1. Describe in detail about Digital radiography for 500 bedded hospital and mention briefly the differences between computed and digital radiography.
2. What is scattered radiation, what is the significance in radiography and what are the methods to reduce it?

II. Write notes on:

(10 x 6 = 60)

1. Characteristic X-rays.
2. PACS.
3. Radiation detection equipments.
4. Heel effect.
5. Focal spot.
6. Ultrasound transducer.
7. Basics of CT.
8. Dosimeters.
9. Free induction decay.
10. Heat dissipation methods in X-ray tube.
