

[LE 0414]

APRIL 2014

Sub. Code:4034

**M.Sc., MEDICAL PHYSICS - DEGREE EXAMINATION
SECOND YEAR
PAPER IV – RADIATION SAFETY**

Q.P. Code: 284034

Time : 3 hours

Maximum : 100 marks

I. Elaborate on:

(2X20=40)

1. Explain the various sources of radiation.
2. How will you plan a diagnostic x-ray facility.

II. Write notes on :

(10X6=60)

1. Committed dose and collective dose.
2. Brachytherapy facility design.
3. Guidelines for using TLD badge.
4. GM type survey meter.
5. Atomic energy act -1962.
6. Labeling of the packages.
7. Radiation emergencies in radiotherapy.
8. Genetically significant dose.
9. Linear non threshold risk model.
10. Half value layer.
