

[LN 1018]

OCTOBER 2018

Sub. Code:4034

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

Q.P. Code: 284034

Time : Three hours

Maximum : 100 marks

I. Elaborate on:

(2 x 20 = 40)

1. Write an essay about the principles of radiation protection.
2. Discuss the type of radiation emergencies that are likely to be encountered in a radiotherapy department consisting of telecobalt, medical linear accelerator and remote after loading brachytherapy unit.

II. Write notes on:

(10 x 6 = 60)

1. ALI & DAC.
2. Deterministic effects.
3. Use factor and occupancy factor.
4. Labeling of packages.
5. General methods of disposal of radioactive wastes.
6. TLD personnel monitoring.
7. Factors governing internal exposures.
8. Transport of radioactive materials.
9. Responsibilities of RSO in Diagnostic Radiology.
10. Radiation survey in telecobalt unit.
