

[LP 1019]

OCTOBER 2019

Sub. Code: 4034

**M.Sc. MEDICAL PHYSICS EXAMS
SECOND YEAR
PAPER IV – RADIATION SAFETY**

Q.P. Code: 284034

Time : Three hours

Maximum : 100 Marks

I. Elaborate on:

(2 x 20 = 40)

1. Explain in detail about the shielding design of telecobalt teletherapy bunker with a neat diagram.
2. Write in detail about the transport of radioactive materials.

II. Write notes on:

(10 x 6 = 60)

1. ALI and DAC.
2. Area monitoring.
3. TLD badge.
4. Responsibilities of RSO in diagnostic radiology.
5. Effective dose limits of radiation workers and general public as per AERB.
6. Emergencies during loading and unloading of telecobalt source.
7. ALARA.
8. Management of radiation injuries.
9. Deterministic effects.
10. Pocket dosimeters.
