

[LD 1013]

OCTOBER 2013

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. Discuss in detail general considerations in Planning of Telecobalt Unit with a model layout
2. Write in detail about the procedure of handling, storage and Disposal of Radioactive material in Nuclear Medicine.

II. Write notes on :

(10X6=60)

1. Why “hydrogenous material” is preferred choice of material for neutron shielding?
2. AERB recommended Dose Limits for Radiation workers and public
3. Write a note on the objective of Radiation Protection
4. Responsibilities of RSO in Industrial Radiography
5. Safety aspects of using ionizing radiation in Blood agricultural research
6. Write in detail about the various types of Packages used in transporting radioactive material.
7. Area Monitoring in Brachytherapy facility
8. Discuss in detail general considerations in Planning of CT scan Unit
9. Radiation emergencies during Loading and Unloading of sources in Telecobalt machine.
10. Management of Radiation Injuries.
