

M.D. DEGREE EXAMINATION
BRANCH XXIV – NUCLEAR MEDICINE
PAPER IV – RADIATION BIOLOGY, RADIATION SAFETY AND
QUALITY ASSURANCE IN NUCLEAR MEDICINE

Q.P. Code: 203004

Time : Three Hours

Maximum : 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Radiation Emergency in Nuclear Medicine and Preparedness.
2. Direct and indirect action of radiation.

II. Write notes on:

(10 x 7 = 70)

1. Repair of sublethal radiation damage.
2. Relative biologic effectiveness.
3. Casarett's classification of tissue radiosensitivity.
4. Acute radiation syndrome.
5. Cell survival curve.
6. Personnel monitoring.
7. Radioactive waste disposal.
8. Transport Index.
9. Regulatory requirements for cyclotron facility.
10. ICRP recommendation of dose limits.
