

(LK 1517)

MAY 2017

Sub. Code: 3025

DIPLOMA IN MEDICAL RADIO THERAPY (DMRT) EXAMINATION

MEDICAL RADIATION PHYSICS AS APPLIED TO RADIO THERAPY

Q.P.Code: 343025

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Discuss: Tumor Dose Specification for External Photon Beams.
2. Treatment planning system and verification in Radiotherapy.

II. Write notes on:

(10 x 7 = 70)

1. Attenuation Coefficient.
2. Pocket Dosimetry.
3. Interstitial implants in cancer cervix.
4. Integral Dose.
5. Remote afterloading in Brachytherapy.
6. Protection against radiation from Brachytherapy sources.
7. Helical Tomotherapy.
8. Treatment Planning for Electron Beam Therapy.
9. Rapid Arc Technique.
10. Basis of Stereotactic Radiosurgery.
