

(LG 1517)

APRIL 2015

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 fractionation in radiotherapy practice.
2. Describe Image guided radiotherapy and its clinical applications.

**II. Write notes on:**

**(10 x 7 = 70)**

1. Cobalt 60.
2. Conformal Radiotherapy.
3. Conformity Index.
4. Tissue equivalent materials.
5. Stochastic and non-stochastic effect.
6. Proton Therapy.
7. Helical Tomotherapy.
8. Oxygen enhancement ratio.
9. Accelerated fractionation.
10. Beam modifying devices.

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