

(LQ 1517)

**AUGUST 2020
(MAY 2020 SESSION)**

Sub. Code: 3025

DIPLOMA IN MEDICAL RADIOTHERAPY (DMRT) EXAMINATION

MEDICAL RADIATION PHYSICS AS APPLIED TO RADIOTHERAPY

Q.P. Code: 343025

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Describe interaction of energy with matter and give the importance of same in clinical practice.
2. Define brachytherapy and describe in detail classifications and Clinical applications.

II. Write notes on:

(10 x 7 = 70)

1. Multileaf / Collimation.
2. Isodose charts
3. Discuss parallel opposed fields
4. Discuss the various patient data acquisition methods.
5. Compensators.
6. Characteristics of electron beam.
7. Discuss GEC-ESTRO guidelines in ca. cervix.
8. Radiation protection survey.
9. IGRT
10. Particulate radiation.
