

**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 in detail the production of proton beam and their properties.
2. Discuss in detail image based brachytherapy.

**II. Write notes on:**

**(10 x 7 = 70)**

1. Wedges.
2. Intensity modulated radiation therapy.
3. Bolus.
4. Linear Quadratic model.
5. Deterministic effect.
6. Percentage depth dose.
7. TLD badge.
8. Total body irradiation.
9. Electronic portal imaging.
10. Thermoplastic mould.

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