(LP 1517) OCTOBER 2019 **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. Discuss in detail the production of electron beam and their properties.
2. What are beam modifying devices explain with examples in detail?

II. Write notes on: **(10 x 7 = 70)**

1. Dynamic wedges.
2. Volumetric modulated arc therapy.
3. Bragg Peak.
4. Maximum permissible dose.
5. Multi Leaf Collimator (MLC)
6. Pure beta emitters.
7. Electron field percentage depth dose.
8. Half Value Layer.
9. Total skin electron therapy.
10. Immobilization in radiotherapy planning.

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