

**DIPLOMA IN MEDICAL RADIO THERAPY (DMRT) EXAMINATION**

**GENERAL PRINCIPLES OF RADIO THERAPY INCLUDING  
RADIO-BIOLOGY AND ONCOLOGY**

*Q.P.Code: 343026*

**Time: Three Hours**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(2 x 15 = 30)**

1. Discuss the principles behind multi-modality treatment in cancer.
2. Discuss Electron therapy - physical aspects and its clinical applications.

**II. Write notes on:**

**(10 x 7 = 70)**

1. Bloom Richardson grading in breast cancer.
2. Linear energy transfer.
3. Late rectal complications and their management.
4. Biological basis for accelerated fractionation.
5. Biological Effective Dose (BED).
6. Role of tumor markers in management.
7. Intra operative radiotherapy.
8. Role of Radiation in Acute Lymphoblastic leukaemia.
9. Oncologic emergencies.
10. Linear Quadratic model.

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