

[LS 1518]

NOVEMBER 2020
(OCTOBER 2020 SESSION)

Sub. Code: 3026

DIPLOMA IN MEDICAL RADIOTHERAPY (DMRT) EXAMINATION

**GENERAL PRINCIPLES OF RADIOTHERAPY 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 biological basis of combining radiotherapy and surgery and discuss the management of T3N1M0 carcinoma Larynx in 45 year old male.
2. Discuss in detail the oncological emergencies.

II. Write notes on:

(10 x 7 = 70)

1. Boron Neutron capture theory.
2. Radiosensitivity and radiocurability.
3. Short notes on cancer immunotherapy.
4. Biology of metastasis.
5. Tumor markers.
6. Potential doubling time and biological equivalent dose.
7. Pre malignant lesions of oral cavity.
8. L.Q. model
9. Mamography.
10. Therapeutic index.
