

THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[AHS 0122]

**JANUARY 2022
(OCTOBER 2021 EXAM SESSION)**

Sub. Code: 2413

**M.Sc. RADIOTHERAPY TECHNOLOGY
SECOND YEAR (From 2019-2020 onwards)
PAPER III-RECENT ADVANCES IN RADIOTHERAPY AND SPECIAL
RADIOTHERAPY PROCEDURES
*Q.P. Code : 282413***

Time: Three hours

Answer ALL Questions

Maximum: 100 Marks

I. Elaborate on:

(2 x 20 = 40)

1. TBI techniques, clinical indications, physical aspects and invivo dosimetry.
2. Biologically Guided Radiation Therapy.

II. Write notes on:

(10 x 6 = 60)

1. Carbon beam therapy and its clinical applications.
2. Use of RPM in tumor motion management.
3. Intraoperative boost Electron Beam Therapy in breast cancer.
4. Iodine 125 and its clinical use.
5. Electronic brachytherapy.
6. Surface guided Radiotherapy.
7. Flat Vs. unflat beams.
8. TSET technique for non-ambulatory patient.
9. Perioperative HDR brachytherapy in soft tissue sarcoma.
10. Intensity Modulated Proton beam therapy.
