

QP CODE: 302018

Reg. No.....

**Third Year B.Sc MRT Degree Supplementary Examinations
October 2025
Radiotherapy II**

Time: 3 Hours

Max Marks: 100

- *Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space*
- *Answer all parts of a single question together • Leave sufficient space between answers*
- *Draw table/diagrams/flow charts wherever necessary*

Essays:

(3x10=30)

1. Describe Radiotherapy techniques and dose in treatment of Breast Cancer
2. Write briefly on 'Organs at risk' in Head and Neck Radiation treatment planning and tolerance dose of any two organs.
3. Discuss on Acute and late radiation reactions in Pelvic Radiotherapy.

Short notes:

(8x5=40)

4. PET Scan in Radiotherapy.
5. Altered fractionation radiation schedules.
6. ICRU 38.
7. Wedge.
8. Brachy therapy in Cancer Cervix.
9. Electron Beam Radiotherapy.
10. Stereotactic Radio Surgery (SRS).
11. Total Body Irradiation.

Answer briefly:

(10x3=30)

12. Multi Leaf Collimator (MLC).
13. Tissue Compensation.
14. Isodose curves.
15. Instruction to patients on Head and Neck radiotherapy.
16. Name 'Beam modifying Devices'.
17. Shielding in Mantle Field radiotherapy.
18. Sievert.
19. TNM staging in Carcinoma Buccal Mucosa.
20. Brachy therapy radiation sources.
21. Daily Radiation Quality checks in teletherapy.
