

Third Year B.Sc MRT Degree Regular/Supplementary Examinations
April 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 the radiation techniques and dose in treatment of Cancer Larynx.
2. Write briefly altered fractionation radiation schedules.
3. Discuss acute and late radiation reactions in Pelvic radiotherapy.

Short notes: **(8x5=40)**

4. CT simulation.
5. Teletherapy and brachy therapy radioactive sources.
6. Mantle field radiotherapy.
7. Collimators.
8. Mould therapy.
9. Linear Accelerator.
10. Quality Assurance in Teletherapy treatment.
11. Isodose curves.

Answer briefly: **(10x3=30)**

12. Bolus.
13. Dose Fractionation Schedules in carcinoma Breast.
14. Instructions to patients on Head and Neck radiotherapy.
15. Electron Applicators.
16. Name beam modifying devices.
17. Shielding.
18. Define GTV (Gross Tumor Volume) and PTV (Planning Target Volume) in radiation planning.
19. Carcinoma cervix- Bony land marks for field placement.
20. Immobilisation devices.
21. FIGO staging in Cancer Cervix
