

QP CODE: 302018

Reg. No.....

**Third Year B.Sc MRT Degree Regular/Supplementary Examinations
March 2022**

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. Explain • IMRT • IGRT • SBRT • IORT
2. Describe staging of carcinoma breast and breast conservation radiation treatment of Stage II Breast Cancer
3. Describe 4 R's of radiobiology. Add a note on altered fractionation

Short notes:

(8x5=40)

4. Brachytherapy in carcinoma cervix
5. Wedges in radiotherapy
6. Mantle field radiation
7. Mucosal radiation reactions
8. Tissue compensators
9. Simulator
10. Electron beam treatment
11. Immobilisation devices used in radiotherapy

Answer briefly:

(10x3=30)

12. Isocentre in Radiotherapy
13. Atomic Energy Regulatory Board (AERB)
14. Describe GTV, PTV and ITV
15. Oncological Emergencies
16. Skin sparing effect in telecobalt and linear accelerator
17. Total Skin Electron Therapy (TSET)
18. Spinal cord compression
19. Helical tomotherapy
20. Concurrent Chemo Radiation and give two examples.
21. External beam radiotherapy
