

QP CODE: 202018

Reg. No.....

**Second Year B.Sc MRT Degree Supplementary Examinations
July 2021**

Radiotherapy I

Time: 3 Hours

Total 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*

Essays:

(3x10=30)

1. Describe the Etiology, Pathology, Staging and management of Carcinoma Cervix.
2. Describe the staging and management of Carcinoma Breast
3. Enumerate on Etiology, Pathology, Investigation and Management of Carcinoma Nasopharynx

Short notes:

(8x5=40)

4. Fractionation schedules in Radiotherapy.
5. Tumor markers
6. Volumetric arc radiation therapy
7. 5 R's of RadioBiology
8. Hypoxic sensitizers
9. Intracavitary irradiation
10. Stochastic and non stochastic effects.
11. Radiation treatment in spinal cord compression

Answer briefly:

(10x3=30)

12. Types of Brachy Therapy.
13. Rationale of Chemo Radiation with examples.
14. Toxicities of Pelvic Radiotherapy.
15. Patterns of spread in Cancer.
16. Linear energy transfer(LET)
17. Management of carcinoma rectum
18. Total and hemi body radiation
19. Ann Arbor Staging of Lymphoma and management of Early Hodgkins Lymphoma
20. Tumor treating fields
21. Acute toxicities of chemoradiotherapy in head and neck cancers
