

**Second Year B.Sc MRT Degree Regular/Supplementary  
Examinations December 2020**

**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. Classification and general management of brain tumors .Describe treatment of Glioblastoma Multiforme
2. Enumerate on Etiology, Pathology, Investigation and Management of Carcinoma Nasopharynx
3. Describe the Figo staging of Carcinoma Cervix and Enumerate on Etiology, Pattern of spread and Stage wise Management of Ca Cervix

**Short notes:**

**(8x5=40)**

4. Altered Fractionation
5. Radiation sensitizers
6. Ann Arbor Staging of Lymphoma and management of Early Hodgkins Lymphoma
7. Relative biologic equivalence
8. Principles of Radiotherapy in malignancy.
9. Hormone treatment in breast cancer
10. 5 R's of Radio Biology
11. Acute radiation side effects

**Answer briefly:**

**(10x3=30)**

12. Name the normal structures in Head and Neck (OAR) and their tolerance doses
13. Rationale of Chemo Radiation with examples.
14. Linear quadratic model
15. Role of emergency radiation in malignant tumours
16. Work up and evaluation of Advanced Breast Cancer.
17. Stochastic and Non stochastic effects.
18. TNM Staging of Carcinoma Breast
19. Management of Testicular tumors
20. Pattern of spread in Carcinoma lung
21. Role of Radiotherapy in Carcinoma Esophagus