

**QP CODE: 202018**

**Reg. No.....**

**Second Year B.Sc MRT Degree Regular/Supplementary Examinations  
April 2024**

**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 staging and clinical features of carcinoma Breast. Describe in detail the management of early Breast cancer.
2. Describe the risk factors and vaccines in carcinoma Cervix. Describe the management of carcinoma Cervix stage II B in detail.
3. Describe the risk factors of carcinoma Endometrium. Briefly describe the molecular types of carcinoma endometrium. Briefly outline the adjuvant treatment strategies in carcinoma endometrium.

**Short notes:**

**(8x5=40)**

4. Pathological classification in Hodgkin's disease.
5. Stochastic and Non Stochastic effects.
6. Staging of carcinoma Oropharynx
7. Iridium -192
8. Hyper fractionation
9. Astrocytoma
10. Management of carcinoma Anal canal
11. Radiosensitisers and Radioprotectors.

**Answer briefly:**

**(10x3=30)**

12. Linear Energy Transfer (LET)
13. Linear quadratic model
14. Repopulation
15. Acute toxicities in Head and Neck Radiation.
16. Patterns of spread in Cancer.
17. Hormone Therapy in Breast Cancer.
18. Oxygen Effect.
19. Superior venecaval obstruction
20. Give two examples of Concurrent Chemo radiation.
21. Compton effect

\*\*\*\*\*