

QP CODE: 202018

Reg. No.....

**Second Year B.Sc MRT Degree Supplementary Examinations
October 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 in detail the natural history, clinical presentation, staging and radiotherapy treatment of nasopharyngeal cancer.
2. Describe in detail 3D conformal radiation therapy in rectal cancer.
3. Describe in detail the definitive radiation therapy for stage III B cervical cancer.

Short notes:

(8x5=40)

4. Staging of carcinoma breast
5. Patterns of spread in cancer
6. High dose rate brachytherapy
7. Hormonal treatment in prostate cancer
8. Acute and late effects of radiation treatment
9. Dose volume histogram
10. Radiotherapy for laryngeal cancer
11. Craniospinal irradiation

Answer briefly:

(10x3=30)

12. Staging of endometrial cancer
13. Management of soft tissue sarcomas
14. Tumor hypoxia
15. Radioprotectors examples and principles of action
16. Stereotactic radiosurgery
17. Late toxicities of chemo radiotherapy in oropharyngeal cancers
18. Pancoast tumor
19. Palliation of bone metastasis
20. Intensity modulated radiotherapy
21. Management of retinoblastoma
