

**Second Year B.Sc MRT Degree Supplementary Examinations
September 2025
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. Classify Lung tumors. How do you stage carcinoma Lung. Describe the clinical features of carcinoma Lung. Describe the management of carcinoma Lung.
2. Describe the anatomy of Prostate. Describe the aetiopathology, staging and patterns of spread of carcinoma Prostate.
3. Describe the anatomy of Nasopharynx. What are the clinical features of carcinoma Nasopharynx. Describe the radiation treatment of carcinoma Nasopharynx.

Short notes: (8x5=40)

4. Radiation treatment of carcinoma Bladder.
5. Radiation toxicities in treatment of carcinoma Stomach.
6. Treatment of carcinoma Gall bladder.
7. What is Tumor Lysis Syndrome.
8. Describe oncological emergencies and their management.
9. Radiation toxicities in treating carcinoma Cervix.
10. What is Palliative radiation. Describe with examples.
11. What is CT simulator. Describe its purpose and give the differences between CT machine and CT simulator.

Answer briefly: (10x3=30)

12. Describe Brachytherapy and the various types of Brachytherapy with clinical implication.
13. Draw and label the conventional radiation field borders in pelvic radiation.
14. What is Respiratory Gaiting.
15. Describe wedge. What is wedge angle.
16. What is Carcinogenesis. Give three examples of Carcinogens.
17. What are the different doses in radiation while treating Primary brain tumor and brain secondaries.
18. Which are the major salivary glands. Where are minor salivary glands located.
19. What are the usual toxicities in head and neck radiation treatment.
20. Differences between Conventional Radiation and 3D CRT.
21. What are the risk factors in Head and Neck cancers.
