

**Third Year B.Sc MRT Degree Regular/Supplementary Examinations
August 2019**

Radiotherapy II

Time: 3 Hours

Max Marks: 100

- **Answer all questions**
- **Draw diagrams wherever necessary**

Essays:

(3x10=30)

1. Define image registration. Explain deformed image registration. What is rigid image registration.
2. Briefly describe the stages of carcinoma of the cervix. Give details of the treatment of a patient with stage III B and what problem occur during treatment
3. Describe the management of Medulloblastoma. Describe the radiotherapy treatment techniques

Short notes:

(8x5=40)

4. Helical tomotherapy
5. Acute radiation reactions
6. eLORA
7. Immobilization
8. Remote after load technique
9. Altered fractionation schedules and their clinical importance
10. Beam modifying devices
11. SAD

Answer briefly:

(10x3=30)

12. Role of radiotherapy in SVCO
13. Proton beam radiotherapy
14. Explain radiation effects on reproductive organs.
15. Wedges in radiotherapy
16. Half value layer
17. Describe GTV, PTV, ITV
18. Intra cavitory Brachytherapy
19. CT scan simulator
20. SSD
21. Tele therapy radioactive source