

QP CODE:202018

Reg.No.....

Second Year B.Sc MRT Degree Examinations, April 2016

RADIOTHERAPY I

Time : 3 Hours

Total Marks:100

- **Answer all questions**

Essays: (3x10=30)

1. How would you investigate and treat a patient of carcinoma oesophagus middle third. Explain various techniques of radiation.
2. Describe pathology and staging of carcinoma cervix and discuss the management of carcinoma cervix stage IIIB.
3. Describe the natural history, clinical presentation, diagnostic work up, staging and treatment of carcinoma naso-pharynx.

Short notes: (8x5=40)

4. Craniospinal radiation.
5. Neuroblastoma
6. Cell survival curve
7. Five 'R's in Radio biology
8. Bone marrow toxicity following chemotherapy.
9. SVC syndrome
10. Beam modifying devices
11. Linear accelerator

Answer briefly: (10x3=30)

12. Staging of Hodgkin's lymphoma
13. Radio protectors and sensitizers
14. Oncogenes.
15. Spinal cord compression
16. HDR brachy therapy
17. Simulator
18. Patterns of spread in Breast Cancer.
19. Hormone therapy in carcinoma prostate
20. ALARA principles
21. Stochastic & Non Stochastic effects
