

Third Year B.Sc MRT Degree Examinations March 2017

RADIOTHERAPY II

Time: 3 Hours

Max Marks: 100

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

Essays: **(3x10=30)**

1. Discuss the role of electron beam therapy in malignancy. Explain details of electron beam
2. Describe the aetiology, pathology, investigations and staging of carcinoma naso-pharynx. Discuss the role of radiotherapy in carcinoma naso-pharynx with special reference to 3DCRT and IMRT.
3. Describe aetiology, pathology and staging of breast cancer. Mention the indications of radiotherapy in carcinoma breast. Discuss the techniques of radiation after breast conservation surgery (BCS) and modified radical mastectomy (MRM).

Short notes: **(8x5=40)**

4. Mantle field irradiation
5. Role of PET scan in radiotherapy
6. Prophylactic cranial irradiation
7. Stereotactic radiation therapy
8. Radionucleotides used in brachytherapy
9. Osteosarcoma
10. Tomotherapy
11. Linear accelerator

Answer briefly: **(10x3=30)**

12. Staging of carcinoma cervix
13. Superior venacaval obstruction(SVCO)
14. CT simulator
15. Californium – 252 (Cf 252)
16. Quality assurance and its relevance in radiotherapy
17. ICRU
18. Radiation planning in T1 vocal cord malignancy
19. Role radiation in stage II endometrial carcinoma
20. What is radiation proctitis and its management
21. Effect of radiation in eye