Roll No.	Total No. of Pages:02
Total No. of Questions : 09	
B.Sc(Radiotherapy Technology	/) (Sem.–5)
RADIOTHERAPY EQUIP	MENT-II
Subject Code:BSRT-50 M.Code:90329	1-19
Date of Examination : 12-	-12-22
Time : 3 Hrs.	Max. Marks:60

INSTRUCTIONS TO CANDIDATES :

- 1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
- 2. SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
- 3. SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

SECTION-A

- 1. Write briefly :
 - a. Elaborate RFA.
 - b. What is the function of RW3 Slab Phantom?
 - c. Write down the applications of radiography.
 - d. What modalities are used to simulate radiation therapy treatments?
 - e. What is Voxel Phantom?
 - f. Enlist various methods to detect radiation.
 - g. What is multi section radiography?
 - h. Explain the processing system in CT.
 - i. Enlist various detectors used in CT.
 - j. Elaborate the term 'EPID' and give its principle.

SECTION-B

- 2. Write a note on cylinderical and PPC chamber.
- 3. Explain in detail about various in-vivo dosimeters.
- 4. Give a detailed account on electrometer.
- 5. Explain the following:
 - a) Reference conditions for dosimetry.
 - b) Slabs.
- 6. Discuss in brief about processing unit and storage unit in CT.

SECTION-C

- 7. Differentiate between 3DCT and 4DCT simulator. Give the working and principle of 3DCT simulator.
- 8. Explain various types of phantoms used in radiotherapy. What are the materials used for phantoms? Give their properties.
- 9. What do you mean by OBI systems? Write a short note on Port film and MVCT.

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.