

Roll No.

Total No. of Pages : 02

Total No. of Questions : 09

B.Sc. (Radiotherapy Technology) (Sem.-6)
QUALITY ASSURANCE IN RADIOTHERAPY

Subject Code : BSRT603-19

M.Code : 91765

Date of Examination : 08-07-22

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) Define couch. Write an application of couch in radiology.
- b) What is Telecobalt unit?
- c) What are the radiotherapy simulator quality checks?
- d) Write a short note on laser alignment.
- e) Define slabs with example.
- f) What are the instruments used in output measurement of telecobalt machine?
- g) Write short notes on radiation symbol.
- h) Write application of front pointer.
- i) Write short note on treatment planning system software quality check.
- j) Define brachytherapy.

SECTION-B

2. What are the equipment specific Quality Assurance (QA)?
3. Write short note on beam shaping jaws.
4. What are safety checks in a brachytherapy unit?
5. Write a short note beam on mechanism.
6. Write a brief about QA test on telecobalt.

SECTION-C

7. Describe in detail about the mechanical and radiation quality assurance procedure of medical linear accelerator.
8. Discuss the various accessories and tools used for QA tests in radiotherapy.
9. Describe in detail about the mechanical and radiation isocentre alignment of gantry.

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.