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Total No. of Pages : 02

Total No. of Questions : 09

B.Sc. (Radiotherapy Technology) (Sem.–3) BASIC RADIOTHERAPY PHYSICS Subject Code : BSRT303-19 M.Code : 78482 Date of Examination : 19-12-22

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. What are photons?
 - b. Enlist any four properties of X-rays.
 - c. Who discovered neutrons and protons?
 - d. Enlist any four parameters of dosimetry.
 - e. Differentiate between supper voltage and megavoltage.
 - f. Enlist any four sources of radiotherapy.
 - g. What is Sc and Sp?
 - h. What is Backscatter factor?
 - i. What is SAD technique?
 - j. Define tissue maximum ratio.

SECTION-B

- 2. Write a brief note on orthovoltage.
- 3. Write a note on quality and intensity of gamma rays.
- 4. Describe various sources used in radiotherapy.
- 5. Write a detailed note on percentage dose depth.
- 6. Describe the physics of neutrons in radiotherapy.

SECTION-C

- 7. Highlight briefly the important historical aspects in radiotherapy.
- 8. Describe the physics of electrons and protons in radiotherapy.
- 9. Write a detailed note on various dose calculation parameters.

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.