

Roll No.

Total No. of Pages : 02

Total No. of Questions : 09

B.Sc. (Radiotherapy Technology) (Sem.-6)
RADIOTHERAPY TREATMENT DELIVERY

Subject Code : BSRT-609-19

M.Code : 91771

Date of Examination : 18-07-22

Time : 3 Hrs.

Max. Marks : 50

INSTRUCTIONS TO CANDIDATES :

1. SECTION-A is COMPULSORY consisting of TEN questions carrying ONE mark 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) Write the full form of IGRT and TSEI.
- b) Write the advantages and disadvantages of electron irradiation.
- c) Where and how brachytherapy is done?
- d) What do you know about IGRT?
- e) Define external beam conventional radiotherapy.
- f) Expand HDR and mention its importance.
- g) Write down the significance of TSEI.
- h) Mention the applications of superficial machines.
- i) Enlist the uses of proton therapy.
- j) Differentiate between super voltage and megavoltage machines.

SECTION-B

2. Discuss the guidelines regarding usage of orthovoltage radiation therapy.
3. Explain the two different orthovoltage machines used for the treatment of radiotherapy.
4. Write a brief note on construction and working of MDR.
5. Give a detailed note on megavoltage machines.
6. Describe the principle and construction of HDR.

SECTION-C

7. Write a detailed note on the various techniques used in superficial treatments.
8. Explain principle, construction and working of supervoltage machines using for radiotherapy treatment.
9. Explain in detail about the TSEI.

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.