

Roll No.

Total No. of Pages : 02

Total No. of Questions : 09

B.Sc. (Radiotherapy Technology) (Sem.-4)

RADIATION SAFETY

Subject Code : BSRT-408-19

M.Code : 79722

Date of Examination : 15-07-22

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. What are radioactive radiations?
- b. Define radioactive decay.
- c. Why radiations are harmful to human?
- d. Define shielding from radiations.
- e. Expand RTT.
- f. Name different shielding materials.
- g. Define Half-Life.
- h. Units of measurement of radioactivity.
- i. Gamma Radiations.
- j. Radiation Hazards.

SECTION-B

2. Discuss evaluation of radiation hazards.
3. Write the responsibilities of RTT.
4. Write a note on densitometer in evaluation of radiation safety.
5. Discuss the effect of time and shielding on radiation hazards.
6. Give details of protective clothing for person working with radiations.

SECTION-C

7. Give a detail account on effect of shielding materials on radiation hazards.
8. Discuss tools used for safety and security of radiation source.
9. Write a note on Radiation Emergency preparedness.

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.