

Roll No.

Total No. of Pages : 02

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B.Sc. (Radiotherapy Technology) (Sem.-3)

EFFECTS OF RADIATION TO ENVIRONMENT & ITS SAFETY

Subject Code : BSRT-307-19

M.Code : 78486

Date of Examination : 16-12-22

Time : 3 Hrs.

Max. Marks : 30

INSTRUCTIONS TO CANDIDATES :

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

SECTION-A

1. **Write briefly :**
 - a) What is EMR?
 - b) What are sources of radioactive waste?
 - c) Which types of radiation are dangerous?
 - d) Define terrestrial radiation.
 - e) What are the effects of radiation on environment?
 - f) What is the main source of radiation?
 - g) What is wavelength of X-ray?
 - h) When & where does Chernobyl disaster happened?
 - i) Name any man-made source of radiation.
 - j) Which gas is major source of background radiation?

SECTION-B

2. Write brief a note on Chernobyl disaster.
3. What do you mean by annual effective dose?
4. What is radioactive waste? Describe its types.
5. Describe sources of environmental radiation.
6. Classify the artificial source of radiations.

SECTION-C

7. Write a note on the history of radiation accidents.
8. Write a detailed note on background radiations and its types.
9. Describe various methods used to dispose the radioactive waste.

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.