

**B. Sc. MEDICAL TECHNOLOGY (RADIOTHERAPY) (BRT)
SEMESTER -IV EXAMINATION, JUNE-2026**

(BRT403) HEALTH CARE & RADIOTHERAPY ETHICS-II

[Time allotted: Three Hours]

[Max Marks: 100]

Note: Read all the instructions carefully

Answer all questions in serial order. Draw suitable diagrams wherever necessary

Q. 1. Objective type questions: (Attempt All)**(10 x 02 = 20)**

(Very short/ short answer/ MCQ/ One liners/ Fill in the blanks/ True/False)

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| a. Hand hygiene is the most effective method to prevent hospital-acquired infections. (True/ False) (CO1, PO1, 3) | |
| b. BSA refers to Body surface area. (True/ False) (CO1, PO1, 5) | |
| c. CPR stands for Cardio pulmonary reassurance. (True/ False) (CO2, PO1, 4) | |
| d. Informed consent is an important part of patient rights. (True/ False) (CO2, PO2, 4) | |
| e. Biomedical waste should be disposed of according to color-coded bins. (True/ False) (CO3, PO1, 4) | |
| f. Which of the following are types of consent: (CO 1, PO1) | h. Which of the following is Secondary prevention? (CO1, PO1, PO3) |
| i. Informed consent | i. Spreading Awareness |
| ii. Verbal consent | ii. Screening |
| iii. Both of the above | iii. Advertisement |
| iv. None of the above | iv. Rehabilitation |
| g. Which of the following is a universal precaution? (CO 1, PO1, PO4) | i. First aid for burns includes: (CO1, PO1) |
| i. Hand washing | i. Applying ice directly |
| ii. Wearing PPE | ii. Running cool water over the burn |
| iii. Safe needle disposal | iii. Applying oil |
| iv. All of the above | iv. Covering with cotton wool |
| | j. ALARA principle includes all except? (CO2, PO1, PO5) |
| | i. Distance |
| | ii. Time |
| | iii. Shielding |
| | iv. 4 D Scans |

Q. 2. Short notes/ Short answer type questions (Attempt any Five)**(05 x 04 = 20)**

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| a. Write a short note on History taking and importance of vitals monitoring (Pulse, blood pressure etc.) | (CO2, PO1, PO3) |
| b. Write a short note on importance of Hand hygiene and write the steps of hand washing. | (CO1, PO1, PO4) |
| c. Role of Nutritional counseling in Carcinoma Esophagus patient undergoing radiotherapy | (CO3, PO3, PO5) |
| d. Write a short note on Cardio Pulmonary Resuscitation | (CO1, PO1, PO4) |
| e. Write a short note on WHO Pain score ladder | (CO1, PO2, PO4) |
| f. Write in detail the levels of Prevention with well suitable examples | (CO3, PO1, PO5) |
| g. What do you understand by Patient rights and responsibilities | (CO1, PO2, PO4) |

Q. 3. Structured questions (Attempt any Three)**(03 x 10 = 30)**

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| a. How will you manage a bedridden patient who is planned for Radiotherapy | (CO1, PO2, PO3) |
| b. Describe the risk factors of malignancy in detail. Also, with the help of well labeled diagram, differentiate between malignant and benign cell | (CO1, PO1, PO3) |
| c. Define Consent. Explain in detail role of consent in Oncology care | (CO2, PO2, PO4) |
| d. Explain the role of communication and empathy in patient care. | (CO2, PO2, PO3) |

Q. 4. Long Answer/ Essay type questions (Attempt any Two)**(02 x 15 = 30)**

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| a. Describe 5 Rs of Radiobiology in detail with well labelled diagrams | (CO2, PO1, PO3, PO4) |
| b. Explain the role of Bowel and Bladder preparation for a cervical cancer patient planned for radiotherapy | (CO2, PO2, PO3, PO4) |
| c. Explain principles of Effective Communication in oncological practices. | (CO1, PO2, PO3, PO4) |