

M.Sc. MEDICAL PHYSICS
SEMESTER -II EXAMINATION, JUNE-2026

(MPCC201) ANATOMY, PATHOPHYSIOLOGY AND CLINICAL ASPECTS OF RADIATION ONCOLOGY

[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)

- a. The outer layer of bone is called _____ (CO1, PO2)
- b. Bone marrow is present in _____ part of bone (CO1, PO2)
- c. Length of small intestine is _____ (CO1, PO2)
- d. Last part of stomach is called _____ (CO1, PO2)
- e. Knee has _____ type of synovial joint (CO1, PO2)
- f. Being honest and transparent in all professional dealings is _____ (CO5, PO3)
- g. Patient's sensitive information protection from unauthorized disclosure is _____ (CO5, PO3)
- h. In superficial treatments, the _____ reaction is the limiting factor. (CO5, PO3)
- i. Monitoring patients important for treatment-related _____ (CO5, PO3)
- j. Patients have various _____ rights. (CO5, PO3)

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

- a. Describe axial skeleton. (CO1, PO2)
- b. Describe appendicular skeleton. (CO1, PO2)
- c. Describe anatomy of oral cavity. (CO1, PO2)
- d. Examples of Ethical and Cultural Conflicts. (CO5, PO3)
- e. What are the Skin reactions resulting from megavoltage treatment? (CO5, PO3)
- f. What are the Ethical Principles in Healthcare? (CO5, PO3)
- g. Explain Ethical and Cultural Issues. (CO5, PO3)

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

- a. Describe a balanced diet. (CO1, PO2)
- b. Draw a labelled diagram of vertebral column. (CO1, PO2)
- c. Draw a labelled diagram of human kidney. (CO1, PO2)
- d. Explain the Patient Privacy with legal aspects. (CO5, PO3)

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

- a. Describe anatomy of alimentary canal. (CO1, PO2)
- b. Describe different types of joints with example. (CO1, PO2)
- c. Explain the patient care is required during radiotherapy treatment. (CO5, PO3)