

[LS 141]

NOVEMBER 2020  
(OCTOBER 2020 SESSION)

Sub. Code: 2036

**M.D. DEGREE EXAMINATION**

**BRANCH IX – RADIO THERAPY**

**PAPER II – GENERAL PRINCIPLES OF RADIOTHERAPY  
INCLUDING RADIOBIOLOGY AND ONCOLOGY**

*Q.P. Code: 202036*

**Time: Three Hours**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(2 x 15 = 30)**

1. What are the fundamentals of pre-operative and post-operative radiotherapy?  
Compare both the strategies in carcinoma rectum. Mention few results of important trials.
2. Management of spinal cord compression with indications and current evidence.

**II. Write notes on:**

**(10 x 7 = 70)**

1. Write the treatment algorithm for a newly diagnosed squamous cell carcinoma of oesophagus extending from 35-40cm with GE junction at 40cm.
2. Radiotherapy options for low risk localised prostate cancer.
3. Indications of Total skin electron radiotherapy. Discuss the technique, dose and precautions to be taken while planning total skin electron radiotherapy
4. Define Febrile neutropenia and explain its management
5. What is targeted therapy? Discuss its role in Renal cell carcinoma
6. Radiotherapy to neck of a patient diagnosed to have oropharyngeal carcinoma T2N0.
7. Principles of Re-irradiation. Explain how will you proceed with re-irradiation of locally recurrent carcinoma of nasopharynx, treated with radiotherapy 3 years ago.
8. Prophylactic para-aortic nodal radiation in carcinoma cervix.
9. Management of Medullary carcinoma thyroid. What are the syndromes associated with it?
10. Respiratory gating techniques.

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