

[LS 143]

NOVEMBER 2020
(OCTOBER 2020 SESSION)
M.D. DEGREE EXAMINATION

Sub. Code: 2038

BRANCH IX – RADIO THERAPY

**PAPER IV – CANCER CHEMOTHERAPY AND RECENT DEVELOPMENTS
IN CLINICAL ONCOLOGY AND RADIOTHERAPY**

Q.P. Code: 202038

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Discuss the role and technique of permanent interstitial brachytherapy and IMRT (Intensity Modulated Radiation Therapy) in carcinoma prostate.
2. Discuss the rationale in combining irradiation with chemotherapy in oncological practice.

II. Write notes on:

(10 x 7 = 70)

1. Vaccines in carcinoma cervix
2. List the levels of evidence. What is meta-analysis? Explain meta-analysis with an example.
3. Describe how to evaluate the radiotherapy plan generated with respect to Dose Volume Histogram (DVH) and other biological indices.
4. What is immunohistochemistry? Write its role in classifying brain tumours.
5. Adaptive radiotherapy – definition, indications and its benefits.
6. Role of PET in Gynaecological malignancies.
7. Antiangiogenesis agents
8. Fertility preservation in Oncology
9. Chemotherapy regimens used for Non-Hodgkin's Lymphoma. Mention the prechemotherapy investigations necessary along with rationale for doing them.
10. Compare and contrast Proton and Carbon Ion therapy.
