**THE TAMIL NADU DR.M.G.R. MEDICAL UNIVERSITY**

**[MD 0522]** **MAY 2022** **Sub. Code: 2038**

**M.D. DEGREE EXAMINATION**

**BRANCH IX – RADIATION ONCOLOGY**

**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. Classification of Cancer Chemotherapy agents. Mechanism of action, pharmacokinetics and side effects of Paclitaxel.

2. Image guided Brachytherapy in Carcinoma Cervix and GEC ESTRO recommendations.

**II. Write notes on:** **(10 x 7 = 70)**

1. Contact Brachytherapy.
2. PET CT in Oncology.
3. Nivolumab.
4. Radio Frequency Ablation (RFA).
5. Monoclonal antibodies in cancer therapy.
6. Tumor Lysis Syndrome.
7. AIDS related malignancy.
8. Sexual dysfunction in Cancer therapy.
9. Role of MRI in treatment planning.
10. Micro Satellite Instability ( MSI).

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