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

**[MD 0524]** **MAY 2024** **Sub. Code: 4078**

**M.D. DEGREE EXAMINATION**
**BRANCH XXVI - RADIATION ONCOLOGY**

**PAPER II – CLINICAL RADIATION ONCOLOGY**

***Q.P. Code: 204078***

**Time: Three Hours** **Maximum: 100 Marks**

**I. Elaborate on:** **(2 x 15 = 30)**

1. Describe in detail about Human Papilloma Virus (HPV) infection related malignancies and the management plan of early stage carcinoma of left tonsil (c T1N0M0).

2. Discuss in detail about the tumor angiogenesis and the role of Antiangiogentic Therapy.

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

1. Tumor Lysis Syndrome.
2. Oxygen Enhancement Ratio (OER).
3. Role of PET in Lymphoma.
4. Oligometastasis.
5. Role of Radiotherapy in Oncological emergencies.
6. Medical Castration.
7. Quality of Life (QOL).
8. Radiation recall.
9. MR Spectroscopy.
10. Adaptive Radiotherapy.

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

**[MD 1224]** **DECEMBER 2024** **Sub. Code: 4078**
**(OCTOBER 2024 EXAM SESSION)**

**M.D. DEGREE EXAMINATION**

**RADIO THERAPY**

**RADIATION ONCOLOGY**

**PAPER II – CLINICAL RADIATION ONCOLOGY**

***Q.P. Code: 204078***

**Time: Three Hours** **Maximum: 100 Marks**

**I. Elaborate on:** **(2 x 15 = 30)**

1. Describe beam modification devices. Mention briefly about multi-leaf collimator and dynamic wedges.

2. Write an essay on radiation protection in a radiotherapy department. Outline "safe work practice" in your department.

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

1. Stereotactic radiosurgery.
2. Simulator.
3. SAD & SSD techniques.
4. Total skin electron irradiation.
5. Principles of mould therapy.
6. WHO Stepladder in pain management.
7. Radiosensitizers.
8. DIBH technique.
9. Hyperbaric Oxygen in Radiotherapy.
10. Illustrate the Penumbra.

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

**[MD 1025]** **OCTOBER 2025** **Sub. Code: 4078**

**M.D. DEGREE EXAMINATION**

**RADIO THERAPY**

**RADIATION ONCOLOGY**

**PAPER II – CLINICAL RADIATION ONCOLOGY**

***Q.P. Code: 204078***

**Time: Three Hours** **Maximum: 100 Marks**

**I. Elaborate on:** **(2 x 15 = 30)**

1. Classify CNS tumors and give management of glioblastoma multiform.
2. Discuss Chemo-radiotherapy in the management of Carcinoma cervix.

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

1. Chemoradiation in carcinoma nasopharynx.
2. Radiation Induced Trismus.
3. Stereotactic Body Radiotherapy of Pancreatic Cancer.
4. Oligometastatic Prostate Cancer.
5. Radioisotopes used in Brachytherapy.
6. Radiation Proctitis.
7. Re-irradiation in Head and neck cancer.
8. Breast conservation therapy.
9. Mucosal melanomas.
10. Chemoradiation in lung cancer.

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

**[MD 0526]** **MAY 2026** **Sub. Code: 4078**

**M.D. DEGREE EXAMINATION**

**RADIO THERAPY**

**RADIATION ONCOLOGY**

**PAPER II – CLINICAL RADIATION ONCOLOGY**

***Q.P. Code: 204078***

**Time: Three Hours** **Maximum: 100 Marks**

**I. Elaborate on:** **(2 x 15 = 30)**

1. Describe the management of Carcinoma Nasopharynx stage T3N1M0.
2. Describe the management of early breast cancer.

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

1. Craniospinal irradiation in medulloblastoma.
2. Late effect of Head and neck radiation.
3. Total Neoadjuvant Therapy (TNT) in Rectal cancer.
4. Management of Locally advanced Prostate cancer.
5. Anaplastic carcinoma thyroid – Pathology and treatment.
6. Premalignant lesion of Oral cavity.
7. Radiotherapy in skin cancer.
8. Neoadjuvant chemoradiation of Esophagus.
9. Internal Mammary Node (IMN) irradiation in Breast cancer.
10. Interstitial Brachytherapy in Soft Tissue Sarcoma (STS).

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