

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 Antiangiogenic 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.

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

[MD 1224]

**DECEMBER 2024
(OCTOBER 2024 EXAM SESSION)**

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 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.

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.
