

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

[AHS 0222]

**FEBRUARY 2022
(OCTOBER 2021 EXAM SESSION)**

Sub. Code: 2403

M.Sc. RADIOTHERAPY TECHNOLOGY

FIRST YEAR

(Candidates admitted from 2019-2020 onwards – Paper III)

(Candidates admitted from 2020-2021 onwards – Paper IV)

PAPER III & IV – PATIENT CARE AND EVALUATION INCLUDING BLS

Q.P. Code : 282403

Time: Three hours

Answer ALL Questions

Maximum: 100 Marks

I. Elaborate notes on:

(2 x 20 = 40)

1. How does the SARS-CoV-2 infection affect cancer patients? Describe steps taken to prevent the spread of the infection among staff in the Department & the treatment machines.
2. List the commonest causes of bleeding in cancer patients. How do you manage a patient undergoing severe bleeding during treatment in the radiotherapy machine?

II. Write Short Notes on:

(10x6 = 60)

1. Child undergoing radiotherapy under anaesthesia.
2. Assessment of an unconscious patient
3. Transferring a patient from wheelchair to the treatment couch.
4. Management of a patient with convulsions on the treatment couch
5. Preparing a patient for Intravenous contrast injection study
6. How do you handle a patient reporting with radiation induced mucositis before radiotherapy treatment?
7. Steps for urinary catheterization
8. What is a tracheostomy tube & how is it assembled and used?
9. How do you advise patients when you have treatment machine break down?
10. Advise for a patient with psychologic difficulty in having a thermoplastic mask placed on the face for treatment.

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

[AHS 1022]

OCTOBER 2022

Sub. Code: 2403

M.Sc. RADIOTHERAPY TECHNOLOGY

FIRST YEAR

(Candidates admitted from 2019-2020 onwards – Paper III)

(Candidates admitted from 2020-2021 onwards – Paper IV)

PAPER III & IV – PATIENT CARE AND EVALUATION INCLUDING BLS

Q.P. Code : 282403

Time: Three hours

Answer ALL Questions

Maximum: 100 Marks

I. Elaborate notes on:

(2 x 20 = 40)

1. Describe in detail about the preoperative assessment and preparation of patients for Intracavitary Brachytherapy.
2. Oral Care for patients on radio therapy for head and neck cancers.

II. Write Short Notes on:

(10x6 = 60)

1. Precautions to be taken before CT simulation of a patient on NG tube.
2. Skin care during Radio therapy.
3. Tracheostomy care.
4. Cardio-pulmonary resuscitation.
5. Psychological preparation of Paediatric patient for Radio therapy.
6. What is the normal Respiratory rate and how to manage patient with low oxygen saturation?
7. Care of patients during craniospinal radiation.
8. Care of patients with metastasis in weight bearing bones.
9. What are cancers associated with HIV patients and enumerate the precautions while treating HIV patients?
10. Counselling of distressed young unmarried patients prior to radio therapy.

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

[AHS 1023]

OCTOBER 2023

Sub. Code: 2403

**M.Sc. RADIOTHERAPY TECHNOLOGY
FIRST YEAR (From 2020-2021 onwards)
PAPER IV – PATIENT CARE AND EVALUATION INCLUDING BLS**

Q.P. Code: 282403

Time: Three hours

Answer ALL Questions

Maximum: 100 Marks

I. Elaborate notes on:

(2 x 20 = 40)

1. List the common causes of bleeding in cancer patients. Explain how you will manage a patient with heavy bleeding during treatment in the radiation department on the machine?
2. Why is Ryles' tube needed for some patients? Explain how you will care for such patients undergoing radiation? What is the dietary advice to be given to a patient on Ryles' tube feeding?

II. Write short notes on:

(10x6 = 60)

1. Explain how you will manage a mentally unstable patient during radiation therapy?
2. How will you manage a child during radiation therapy under anaesthesia?
3. Enumerate the steps of urinary catheterization.
4. What is a tracheostomy tube and its part? How will you manage a blocked tracheostomy tube?
5. How will you transfer a patient from stretcher to couch during radiation treatments?
6. How will you manage the waiting time in radiotherapy department?
7. Explain regarding skin care during radiotherapy.
8. What are the vital signs that you will monitor in a patient with vomiting?
9. What is cardiopulmonary resuscitation? Explain the steps briefly.
10. How will you prepare a patient for intravenous contrast study?

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

[AHS 1024]

OCTOBER 2024

Sub. Code: 2403

**M.Sc. RADIOTHERAPY TECHNOLOGY
FIRST YEAR (From 2020-2021 onwards)
PAPER IV – PATIENT CARE AND EVALUATION INCLUDING BLS**

Q.P. Code: 282403

Time: Three hours

Answer ALL Questions

Maximum: 100 Marks

I. Elaborate notes on:

(2 x 20 = 40)

1. Emergencies encountered in cancer patients undergoing radiotherapy.
2. Care for patients with head and neck cancer who are on radiation treatment.

II. Write short notes on:

(10x6 = 60)

1. Explain how you will manage an unconscious patient during radiation therapy?
2. How will you manage a 4 years old child undergoing radiation therapy to brain?
3. Enumerate the steps of urinary catheterization.
4. What is a tracheostomy tube and how is it assembled?
5. List the common causes of bleeding in cancer patients.
6. How will you manage the waiting time in radiotherapy department?
7. How will you manage a patient having seizures on the treatment couch during radiation therapy?
8. Care of elderly patients on radiotherapy.
9. What are the vital signs that you will monitor in a patient with dyspnoea?
10. What is cardiopulmonary resuscitation? Explain the steps briefly.
