

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

[AHS 0321]

MARCH 2021

Sub. Code: 2204

(OCTOBER 2020 EXAM SESSION)

M.Sc. RESPIRATORY THERAPY

FIRST YEAR (From 2019-2020 onwards)

**PAPER IV – EQUIPMENT IN RESPIRATORY MEDICINE AND ADVANCED
RESPIRATORY THERAPY AND CRITICAL CARE**

Q.P. Code : 282204

Time: Three hours

Answer ALL Questions

Maximum: 100 Marks

I. Elaborate notes on:

(2 x 20 = 40)

1. Discuss the Role of Respiratory therapist in the Modern intensive respiratory care. Briefly discuss about the techniques used to increase alveolar ventilation in the ICU patients.
2. Define Acute Respiratory Distress Syndrome (ARDS). Discuss in detail about the Pathophysiology and Management of ARDS.

II. Write Short Notes on:

(10x6 = 60)

1. Discuss in brief about Non Invasive Ventilation?
2. Write short notes on “Care of the Ventilators”.
3. Methods to Prevent Deep Vein Thrombosis?
4. Mention briefly about the Modes of Ventilators.
5. Discuss about the Techniques of Chest Manipulations.
6. Write short notes on Acute Respiratory Failure.
7. Discuss in brief about Oxygen Toxicity.
8. Discuss briefly about the Tracheostomy care in ICU.
9. Write short notes on the techniques used to aid expectoration in critically ill patients?
10. Write short notes on Forced expiratory technique.

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

[AHS 0921]

**SEPTEMBER 2021
(MAY 2021 EXAM SESSION)**

Sub. Code: 2204

**M.Sc. RESPIRATORY THERAPY
FIRST YEAR (From 2019-2020 onwards)
PAPER IV – EQUIPMENT IN RESPIRATORY MEDICINE AND ADVANCED
RESPIRATORY THERAPY AND CRITICAL CARE
*Q.P. Code : 282204***

Time: Three hours

Answer ALL Questions

Maximum: 100 Marks

I. Elaborate notes on:

(2 x 20 = 40)

1. What are the techniques of Respiratory management provided to Mechanically ventilated patients in the Intensive Care Unit(ICU). Discuss in detail about the techniques used to aid expectoration in critically ill patients?
2. Define Acute Respiratory Failure (ARF). Discuss about the Classification. Diagnostic methods, Airway management and monitoring of ARF patients in the Intensive Care Unit (ICU) ?

II. Write Short Notes on:

(10x6 = 60)

1. Methods of Oxygen therapy?
2. Discuss briefly about Respiratory monitoring in Intensive Care Unit.
3. Write about the Principle used and the technique of Incentive spirometry.
4. Complications of Mechanical Ventilation and the techniques to prevent it?
5. Mention about the Vasopressors used in Intensive Care Unit.
6. Bronchodilators? Mention the Routes of administration of Bronchodilators?
7. Write short notes on Tracheostomy tubes?
8. Discuss in short about the VAP(Ventilatory Associated Pneumonia) bundles?
9. Techniques of Postural drainage?
10. Define ARDS(Acute Respiratory Distress Syndrome)?

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

[AHS 0222]

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

Sub. Code: 2204

M.Sc. RESPIRATORY THERAPY

**FIRST YEAR (Candidates admitted from 2019-2020 & 2020-2021 onwards)
PAPER IV – EQUIPMENT IN RESPIRATORY MEDICINE AND ADVANCED
RESPIRATORY THERAPY AND CRITICAL CARE**

Q.P. Code : 282204

Time: Three hours

Answer ALL Questions

Maximum: 100 Marks

I. Elaborate notes on:

(2 x 20 = 40)

1. Define Oxygen therapy. Discuss various available methods of delivering Oxygen to the critically ill patients in ICU and the complications of Oxygen Therapy.
2. Mention the indications for artificial ventilation, Discuss briefly about the modes of mechanical ventilator and monitoring technique used in the patients on mechanical ventilator?

II. Write Short Notes on:

(10x6 = 60)

1. Write short notes on Nebulizers.
2. Discuss the parts of Ambu bag and its uses.
3. Name few Mucolytic agents and its mechanism of action.
4. Write short notes on Capnography.
5. Discuss briefly about the Medical gas pipelines in ICU.
6. Write a short notes on Chest Drain Systems.
7. Discuss the parts and the principles of Suction apparatus.
8. Write short notes on Multi Organ Dysfunction score.
9. Discuss the types of supraglottic Airway devices.
10. Write short notes on Bronchoscopes.

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

[AHS 0522]

MAY 2022

Sub. Code: 2204

M.Sc. RESPIRATORY THERAPY

**FIRST YEAR (Candidates admitted from 2019-2020 & 2020-2021 onwards)
PAPER IV – EQUIPMENT IN RESPIRATORY MEDICINE AND ADVANCED
RESPIRATORY THERAPY AND CRITICAL CARE**

Q.P. Code : 282204

Time: Three hours

Answer ALL Questions

Maximum: 100 Marks

I. Elaborate notes on:

(2 x 20 = 40)

1. Define Oxygen therapy. Discuss various available methods of delivering Oxygen to the critically ill patients in ICU and the complications of Oxygen Therapy.
2. Mention the indications for artificial ventilation, Discuss briefly about the modes of mechanical ventilator and monitoring technique used in the patients on mechanical ventilator.

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