

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

[AHS 0122]

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

Sub. Code: 2211

**M.Sc. RESPIRATORY THERAPY
SECOND YEAR (From 2019-2020 onwards)
PAPER I - ADVANCED RESPIRATORY THERAPY - II
Q.P. Code : 282211**

Time: Three hours

Answer ALL Questions

Maximum: 100 Marks

I. Elaborate notes on: (2 x 20 = 40)

1. Define difficult intubation and how will you evaluate patient for difficult laryngoscopy and endotracheal intubation.
2. Classification of weaning by duration and define weaning failure. What are the objective indices which predict successful weaning?

II. Write Short Notes on: (10x6 = 60)

1. Describe the beneficial effects of appropriate PEEP (Positive End Expiratory Pressure).
2. Brief note on Malampati classification and cormack lehane classification.
3. What is intrinsic PEEP and how will you manage patient with intrinsic PEEP?
4. VAP prevention bundle.
5. Discuss Inverse ration ventilation.
6. Indication and contraindications of ICD and its complications.
7. Mention different types of airway clearance techniques in ICU.
8. Hazards of oxygen therapy in infants.
9. Metabolic acidosis – types, causes and what is corrected anion gap.
10. What are advantages of pressure control ventilation over volume control ventilation?

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

[AHS 1022]

OCTOBER 2022

Sub. Code: 2211

**M.Sc. RESPIRATORY THERAPY
SECOND YEAR (Candidates admitted from 2019-2020 & 2020-2021 onwards)
PAPER I – ADVANCED RESPIRATORY THERAPY - II**

Q.P. Code: 282211

Time: Three hours

Maximum: 100 Marks

Answer ALL Questions

I. Elaborate on:

(2 x 20 = 40)

1. What is PEEP, Pulmonary effects of PEEP?
2. Elaborate on risk factors for DVT and its preventive measures.

II. Write notes on:

(10 x 6 = 60)

1. VAP Bundle.
2. Hazards on oxygen therapy.
3. Monitoring Airway pressure.
4. Tracheostomy care.
5. Arterial blood gas analysis (ABG).
6. Indication and Contraindications, Complications of ICD.
7. What are Supraglottic Devices?
8. Secretion clearance techniques.
9. Different Modes of Ventilation.
10. What is Compliance and Resistance?

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

[AHS 0523]

MAY 2023

Sub. Code: 2211

**M.Sc. RESPIRATORY THERAPY
SECOND YEAR**

**(Candidate admitted from 2020-2021 Batch onwards)
PAPER I – ADVANCED RESPIRATORY THERAPY - II**

Q.P. Code: 282211

Time: Three hours

Maximum: 100 Marks

Answer ALL Questions

I. Elaborate on:

(2 x 20 = 40)

1. Assessment of Airway for difficult laryngoscopy and endotracheal intubation.
2. Define weaning failure. Classify weaning by duration. What are the indices predicting weaning?

II. Write notes on:

(10 x 6 = 60)

1. Infection Prevention strategies in ICU.
2. Signs of respiratory distress.
3. What is Auto PEEP, its effect on respiration?
4. Define DVT. Mechanical preventive strategies for DVT.
5. What is Inverse ratio ventilation and its effects?
6. What is Triple Jar Chest drainage system?
7. Strategies for PEEP titration.
8. Types of Airways Clearance technique.
9. Hazards of Oxygen therapy in children.
10. What is SPO₂, what does it signify?

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

[AHS 1024]

OCTOBER 2024

Sub. Code: 2211

**M.Sc. RESPIRATORY THERAPY
SECOND YEAR (From 2020-2021 onwards)
PAPER I – ADVANCED RESPIRATORY THERAPY - II**

Q.P. Code: 282211

Time: Three hours

Maximum: 100 Marks

Answer ALL Questions

I. Elaborate on:

(2x20=40)

1. Explain in detail about Arterial blood gas analysis (ABG). Elaborate about buffer systems.
2. What are the causes, indications, contraindication and complication of Intercostal drainage (ICD).

II. Write notes on:

(10x6=60)

1. Define DVT and write briefly about prevention strategies.
2. Significance of PEEP in ARDS and how to titrate PEEP?
3. What is Flail chest and its management?
4. Write notes on pulmonary contusion.
5. Significance of HFNC and its use.
6. What is RSBI? Write in detail about its significance.
7. Airway assessment in neonates.
8. What is respiratory isolation and its significance?
9. How to trouble shoot ventilator alarms?
10. Write notes on Blood Pressure.

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

[AHS 1025]

OCTOBER 2025

Sub. Code: 2211

**M.Sc. RESPIRATORY THERAPY
SECOND YEAR (From 2020-2021 onwards)
PAPER I – ADVANCED RESPIRATORY THERAPY - II**

Q.P. Code: 282211

Time: Three hours

Maximum: 100 Marks

Answer ALL Questions

I. Elaborate on:

(2 x 20 = 40)

1. Describe different modes of ventilation and write in details about controlled mode of ventilation.
2. Define ARDS. Describe in detail about ventilator and recruitment strategies in ARDS.

II. Write notes on:

(10 x 6 = 60)

1. What is EtCO₂, what is its significance?
2. What is spontaneous breathing trial?
3. VAP prevention bundle.
4. Indication for surgical airway.
5. Oxygen therapy.
6. Write briefly about Laryngeal Mask Airway (LMA).
7. Write briefly about types of NIV Mask.
8. What are the sign of respiratory distress?
9. Write about Airway assessment.
10. How do venturi mask work?
