

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

[AHS 0423]

APRIL 2023

Sub. Code: 2616

B.Sc. RESPIRATORY THERAPY
THIRD YEAR (Regulations 2014-2015 & 2018-2019 onwards)
PAPER I – RESPIRATORY THERAPY TECHNIQUES - I
Q.P. Code: 802616

Time: Three Hours

Answer ALL Questions

Maximum: 100 Marks

I. Elaborate on:

(3 x 10 = 30)

1. Define ARDS. What is Berlin's criteria? Describe different Recruitment maneuvers for ARDS management.
2. What are the different modes of ventilation? Describe and elaborate on them. Mention the different advantages of SIMV and ASV modes of ventilation.
3. What are the indications and contraindications of NIV? Draw and describe the parts of a standard Bilevel positive airway pressure machine. What are the different masks that can be used for NIV?

II. Write Notes on:

(8 x 5 = 40)

1. What is PEEP? Describe Barotrauma.
2. Types of Respiratory Failure.
3. Differences between CPAP and BPAP.
4. Weaning from mechanical ventilator.
5. What is plateau pressure? What is its significance in mechanical ventilation?
6. What are the indications of Tracheostomy?
7. Describe the risk factors for Nosocomial Pneumonia.
8. Midazolam – Describe some adverse effects.

III. Short Answers on:

(10 x 3 = 30)

1. Emergency treatment of Tension pneumothorax.
2. Chronic respiratory failure.
3. Respiratory muscle weakness.
4. Decreased ventilatory drive.
5. Prevention of Thromboembolism in patients on ICU care.
6. Invasive ventilatory management of patient with COPD.
7. Inspiratory time.
8. Complications of airway suctioning.
9. Deadspace ventilation.
10. RSBI – Rapid Shallow Breathing Index.
