# Rajiv Gandhi University of Health Sciences, Karnataka

**III Year B.Sc. Respiratory Technology Degree Examination – 29-Oct-2026**

**Time: Three Hours** **Max. Marks: 100 Marks**

## Respiratory Technology – Applied – Paper-II (RS-3)

## Q.P. CODE: 3362

Your answers should be specific to the questions asked.
Draw neat labeled diagrams wherever necessary

**LONG ESSAYS (Second Question Choice)** **2 x 10 = 20 Marks**

1. Write a note on ARDS and its pathophysiology. Explain lung protective and ventilation strategies in ARDS.

2. Ventilator associated pneumonia and management.
   **OR**
   Mechanism, pathophysiology and management of Hypovolemic and cardiogenci shock.

**SHORT ESSAYS (Question No 5 & 10 choice)** **10 x 5 = 50 Marks**

3. Differentiate between pressure controlled and volume controlled ventilation.
4. Tread Mill tests – Indications, contraindications and precautions.
5. Bronchoscopy in ventilated patients.
   **OR**
   Types of respiratory failure, clinical manifestation and management.
6. Pulse oximetry – principles, indications, contraindications.
7. Complication of long term PPV.
8. Sedative and muscle relaxants.
9. Relationship between flow, pressure, volume and time graph.
10. Fluid balance in ICU.
    **OR**
    Secretion clearance from artificial airway.
11. Ventilation strategies in Neuro muscular disorders.
12. Pulmonary edema.

**SHORT ANSWER** **10 x 3 = 30 Marks**

13. Hypokalemia.
14. Cuff pressure manometer.
15. Causes for increased physiological dead space.
16. Metabolic acidosis and alkalosis.
17. Laryngoscopy and its parts.
18. Inspiratory pause.
19. Normal and abnormal signs in lung ultrasound.
20. Benzodiazepines.
21. Plateau pressure.
22. Types of burns.

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