

Rajiv Gandhi University of Health Sciences, Karnataka
Third Year B.Sc. Respiratory Care Technology Degree Examination – 08-May-2026

Time: Three Hours

Max. Marks: 100

RESPIRATORY CARE 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. Describe the Chatburn's classification of mechanical ventilation
2. Define Berlin definition of ARDS and explain the lung-protective strategies in ARDS

OR

Effect of positive pressure ventilation on the pulmonary system

SHORT ESSAYS (Question No 5 & 10 choice)

10 x 5 = 50 Marks

3. Ventilator – Associated events
4. spontaneous breathing trial on pressure support mode
5. Write a note on evaluation of clinical criteria for weaning

OR

Management of COPD patients with Hypercapnic respiratory failure

6. Write a note compliance and airway resistance
7. Auto-Peep detection using waveform
8. Indications and complication of long-term mechanical ventilation
9. Describe the airway management in emergency department
10. Pressure control ventilation

OR

Airway Pressure Release Ventilation (APRV)

11. Positive end expiratory pressure
12. Describe the management of traumatic brain injury patients

SHORT ANSWER

10 x 3 = 30 Marks

13. Components of inflation pressure
14. Complications of artificial airway
15. Optimal PEEP and inflation point
16. Extubation readiness criteria
17. Mention the causes of patient in sudden distress during mechanical ventilation
18. Extubation failure
19. Adaptive support ventilation
20. Cardiogenic shock
21. Brain protective ventilation strategy
22. What are the drugs used during airway stabilization?
