

Rajiv Gandhi University of Health Sciences, Karnataka
Third Year B.Sc. Respiratory Care Technology Degree Examination – 29-Oct-2025

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 in detail on effects of positive pressure ventilation on pulmonary system
2. Write a note liberation and discontinuation from mechanical ventilation

OR

Write a note on mechanism, pathophysiology, management of hypovolemic shock

SHORT ESSAYS (Question No 5 & 10 choice)

10 x 5 = 50 Marks

3. Write a note on ventilatory settings for COPD patients
4. Write in detail on SIMV mode its indication, uses and its settings
5. Write in detail on pulmonary mechanics

OR

Write in detail on ventilation perfusion scan

6. Write a note PEEP, its types, indication, complications and contraindications
7. Write a note on traumatic brain injury
8. Write a note on cardiac tamponade
9. Effects of mechanical ventilation on intracranial pressure and cerebral perfusion
10. Write a note on carbon monoxide poisoning and management

OR

Write in detail in improving oxygenation on ventilator

11. Write a note on type I respiratory failure
12. Transcutaneous monitoring and its significance

SHORT ANSWER

10 x 3 = 30 Marks

13. Write a note on Holter analysis
14. Mention any three antiarrhythmic drugs
15. Write a note on ST segment
16. Goals of long-term mechanical ventilation
17. Peak inspiratory pressure
18. Types of burns
19. Central venous pressure graph
20. Sterilization of bronchoscopes
21. Hyperventilation vs hyperinflation
22. Glasgow coma scale (GCS)
