

Rajiv Gandhi University of Health Sciences, Karnataka
III Year B. Sc. Respiratory Care Technology Degree Examination – 27-Nov-2023

Time: Three Hours

Max. Marks:100 Marks

Applied Respiratory Care Technology -II (RS2)

Q.P. CODE: 2930

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

LONG ESSAYS (Answer any two)

2 x 10 = 20 Marks

1. Discuss strategies to improve ventilation and oxygenation in context of respiratory therapy
2. Describe airway management in mechanical ventilation
3. Describe various modes of mechanical ventilation

SHORT ESSAYS (Answer any ten)

10 x 5 = 50 Marks

4. PEEP
5. Pulmonary compliance and resistance
6. Percutaneous tracheotomy
7. ABG analysis
8. Care of artificial airway
9. Troubleshooting ventilator alarms and events
10. Complications of mechanical ventilation
11. Ventilatory failure and oxygenation failure
12. Disease specific ventilatory strategy in COPD
13. Electrolyte imbalance in patients on mechanical ventilation
14. Metered dose inhalers
15. Clinical conditions leading to mechanical ventilation

SHORT ANSWERS (Answer any ten)

10 x 3 = 30 Marks

16. Vital signs
17. N-acetyl cysteine
18. Barotaruma
19. Classification of ventilators
20. Nutrition management in patients on ventilator
21. CVP monitoring
22. Pressure – volume curve
23. Steroids
24. Effects of PEEP on respiratory and cardiovascular system
25. Causes of respiratory acidosis
26. Prone ventilation
27. Factors contributing to respiratory muscle fatigue
