

Rajiv Gandhi University of Health Sciences, Karnataka
Third Year B.Sc. Respiratory Care Technology Degree Examination – 03-Jun-2024

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 ventilatory graphics for all functional modes according to pressure vs volume with phase variables
2. Write a note extra-pulmonary effects of mechanical ventilation

OR

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

SHORT ESSAYS (Question No 5 & 10 choice)

10 x 5 = 50 Marks

3. Write a note on acute coronary syndrome
4. Write in detail life threatening arrhythmias
5. Write in detail on brain protective ventilation strategy

OR

Write in detail on Extubation failure and re-intubation criteria

6. Write a note pathogenesis of ventilator associated pneumonia
7. Write in detail on recruitment maneuvers in ARDS
8. Write a note on capnograph and their abnormalities
9. Discuss in detail monitoring the electrical activity of the diaphragm
10. Write a note pulse oximetry

OR

Write a note on initial ventilatory settings for closed head injury patients

11. Write a note on triggering mechanism in mechanical ventilation
12. Write a note on endotracheal intubation

SHORT ANSWER

10 x 3 = 30 Marks

13. Contraindications and physiological effects of PEEP
14. Plateau pressure
15. Air trapping
16. Weaning criteria
17. Compartment syndrome
18. Wallace rule of nine
19. Left axis deviation
20. T-piece system
21. Harmful effects of oxygen therapy
22. Lung ultrasound – normal and abnormal signs
