

Rajiv Gandhi University of Health Sciences, Karnataka
III Year B.Sc. Respiratory Technology Degree Examination – 22-May-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. Define the types of weaning. Explain evaluation of clinical criteria and enumerate on assessment of weaning readiness
2. Explain in details about effects of positive – pressure ventilation on the cardio-pulmonary system

OR

Describe the acute care and long-term care indications for using NIV and describe the process of selecting appropriate patient for NIV

SHORT ESSAYS (Question No 5 & 10 choice)

10 x 5 = 50 Marks

3. Chatburn's classification of ventilatory modes
4. Differentiate between control and assist – control modes
5. Assess the ventilator trouble shooting and management

OR

Explain Extubation – readiness criteria and technique

6. Explain lung recruitment and management in ARDS
7. Long – term complications of mechanical ventilation
8. Permissive hypercapnia
9. Write a note on Hemodynamic Measurements in ICUs
10. Describe control and phase variables

OR

Indications and contraindications of bronchoscopy

11. Ventilator associated events
12. Describe advanced modes of mechanical ventilation

SHORT ANSWER

10 x 3 = 30 Marks

13. Mention the Clinical application of volume waveform
14. Components of inflation pressure
15. Sedatives in ICU
16. Complication of NIV
17. Indications and contraindications of prone ventilation
18. Indications of PEEP
19. Mention the factors affecting of aerosol therapy in mechanical ventilated patient
20. Ventilator associated pneumonia bundle
21. Setting of ventilators for a patient with traumatic head injury with raised ICP
22. Management of patient in distress