

# Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.Sc. Respiratory Care Technology Degree Examination – 08-May-2025

Time: Three Hours

Max. Marks: 100 Marks

## Introduction to Respiratory Technology (RS-3)

**Q.P. CODE: 3359**

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. A patient becomes unresponsive while giving chest physiotherapy. Write your action on this scenario.
2. Universal precaution. Explain in detail.

**OR**

Humidity and Aerosol therapy.

### SHORT ESSAYS (Question No 5 & 10 choice)

10 x 5 = 50 Marks

3. Airway clearance methods.
  4. Bland aerosol therapy.
  5. Extracorporeal membrane oxygenation.
- OR**
- Oxygen analyzers.
  6. Manual resuscitators – types, parts, indications and techniques.
  7. Pulmonary edema.
  8. Obesity hypoventilation syndrome – definition, clinical features and management.
  9. Intercostal drains and tubes – principle, indication, setup.
  10. Vital signs.

**OR**

- Tracheostomy – definition, indications, types, complications.
11. Nebulizers – types and explain each.
12. Aids to endotracheal intubation.

### SHORT ANSWER

10 x 3 = 30 Marks

13. Glasgow coma scale score.
14. Pre and post bronchodilator test.
15. Advanced airway adjuncts.
16. Boyle's law, Gay-Lussac's law, Dalton's law of partial pressure.
17. Pulse oximetry.
18. Colorimetric end-tidal determination.
19. Complications and hazards of hyperbaric oxygen therapy.
20. Ari entertainment system.
21. Thorpe tube.
22. Normal saline.