

**Rajiv Gandhi University of Health Sciences, Karnataka**  
**II Year B.Sc. Respiratory Care Technology Degree Examination – 07-May-2026**

**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. Describe the characteristics of therapeutic aerosols. Write in detail about aerosol drug delivery systems and hazards of aerosol therapy.
2. Describe the indication, procedure and complications of surgical airway devices.

**OR**

Enumerate the types and indications of pulmonary function test. Describe the techniques, pathophysiology and significance of body plethysmographs.

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

**10 x 5 = 50 Marks**

3. Wave form morphology and applications of capnography.
4. Flexible Bronchoscope.
5. Indications and technique of cardiopulmonary resuscitation.

**OR**

Sputum induction.

6. Peak inspiratory and expiratory flowmeters – Indications, techniques and contraindication.
7. Central arterial cannulation.
8. Oxygen therapy devices.
9. Pacer.
10. Bag Value Mask ventilation.

**OR**

Intrapulmonary percussive ventilation.

11. Incentive spirometer.
12. Indications of blood aerosol therapy and devices used.

**SHORT ANSWER**

**10 x 3 = 30 Marks**

13. Blind intubation.
14. Droplet precaution.
15. T-piece resuscitator.
16. Laryngoscopes.
17. Venturi principle.
18. Portable suction units.
19. V/Q ratio.
20. Abnormal pattern of respiratory rate.
21. Types of extra corporal life support.
22. Direct Fick method.