

**Rajiv Gandhi University of Health Sciences, Karnataka**  
**III Year B.Sc. Respiratory Technology Degree Examination – 14-Dec-2022**

**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. Modes of invasive ventilation.
2. Positive end expiratory pressure and CPAP.

**OR**

Bronchoscopy – Indications, contraindications and complications.

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

**10 x 5 = 50 Marks**

3. Septic shock.
4. Explain briefly the ventilation strategies in Neuromuscular disorders.
5. Assessment of airway.

**OR**

Traumatic brain injury.

6. Explain the basic pressure gradients.
7. Carbon monoxide poisoning and management.
8. Congestive heart failure and management.
9. Respiratory failure, clinical manifestations and management.
10. Air trapping with appropriate graphs.

**OR**

Phase variables and time constant.

11. Capnography.
12. Indications, contraindications and principles of MRI of thorax.

**SHORT ANSWER**

**10 x 3 = 30 Marks**

13. Arterial blood gas and its normal values.
14. Normal mechanics of spontaneous breathing.
15. Airway pressure monitoring.
16. Complication related to Central venous catheter.
17. Mallampatti classification.
18. Extubation criteria.
19. Accessory muscles of breathing.
20. Indication of PEEP.
21. Indication and exclusion criteria for inhaled nitric oxide.
22. Intrapulmonary shunt.

\*\*\*\*\*