

**Rajiv Gandhi University of Health Sciences, Karnataka**  
**Third Year B.Sc. Respiratory Care Technology Degree Examination – 24-Nov-2023**

**Time: Three Hours**

**Max. Marks: 100**

**Respiratory Technology – Clinical- Paper-I (RS-3)**

**Q.P. CODE: 3361**

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. Invasive ventilation in acute respiratory distress syndrome
2. Explain in details various modalities in monitoring of mechanical ventilation in critical care

**OR**

Explain about intercostal drainage insertion – indications, contraindications and complications

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

**10 x 5 = 50 Marks**

3. Haemodynamic monitoring in critically ill patient
4. Types of bronchoscopes
5. Cardiopulmonary rehabilitation in restrictive lung diseases

**OR**

Explain in detail about ETCO<sub>2</sub> in various condition and analysis of waveforms

6. Hyperkalemia – diagnosis, correction and its implication in ventilated patient
7. Explain about pulse oximeter and SpO<sub>2</sub> monitoring in ICU
8. Management of hypovolemic shock
9. Explain various scenarios of trouble shooting in mechanical ventilation
10. Diagnosis and treatment of pulmonary embolism

**OR**

Post cardiac arrest care

11. Explain various steps of reading chest x-ray
12. Explain hypertensive disorders

**SHORT ANSWER**

**10 x 3 = 30 Marks**

13. Oxygen cascade
14. Cardioversion and defibrillation differences
15. Venovenous Extra Corporeal Membrane Oxygenation (ECMO)
16. Indications of atropine
17. Causes for types II respiratory failure
18. Six-minute walk tests
19. Airway management in unconscious patient
20. Complication of percutaneous tracheostomy
21. ECG-changes in myocardial infarction
22. Types of stroke

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