

**Rajiv Gandhi University of Health Sciences, Karnataka**  
**III Year B. Sc. Respiratory Care Technology Degree Examination – 25-Nov-2024**

**Time: Three Hours**

**Max. Marks:100 Marks**

**Applied Respiratory Care Technology -II (RS2)**  
**Q.P. CODE: 2930**

Your answers should be specific to the questions asked.  
Draw neat, labeled diagrams wherever necessary

**LONG ESSAYS (Answer any two)**

**2 x 10 = 20 Marks**

1. Define NIV and explain its functional modes, indications, advantages and contraindications.
2. Discuss aerosol therapy and highlight various aerosol delivery equipments.
3. ABG-various parameters indicating respiratory alkalosis and acidosis

**SHORT ESSAYS (Answer any ten)**

**10 x 5 = 50 Marks**

4. Chest auscultation
5. Checklist for a bronchoscopy procedure
6. Percussion-indication and contraindication
7. Inverse ratio ventilation
8. Role of respiratory therapist in tobacco cessation
9. SIMV
10. Humidity therapy
11. Common artificial airways
12. Assessment of ventilator failure
13. Preparation of a patient for PFT
14. Alarm settings in a ventilator
15. ECMO and its complications

**SHORT ANSWERS (Answer any ten)**

**10 x 3 = 30 Marks**

16. Calculation of lung compliance
17. Sleep studies-indication
18. Vital capacity in obstructive and restrictive lung disease
19. Flutter devices
20. NRBM
21. N-acetyl cystiene in respiratory therapy
22. Barotrauma
23. Complications of mechanical ventilation
24. CPAP
25. Airway suctioning
26. ETCO<sub>2</sub>
27. Abnormal breath sounds

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