

**Rajiv Gandhi University of Health Sciences, Karnataka**  
III Year B.Sc. Respiratory Care Technology Degree Examination - 27-Nov-2024

**Time: Three Hours**

**Max. Marks: 100 Marks**

**Advanced Respiratory Care Technology - III (RS2)**

**Q.P. CODE: 2931**

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. What are the types of cardiac arrest? Discuss approach to cardiac arrest.
2. What are the indications of mechanical ventilation? What are the various modes of mechanical ventilation? What are the complications of mechanical ventilation?
3. What is NIV? What are the conditions in which NIV can be used? What are factors predicting failure of NIV?

**SHORT ESSAYS (Answer any Ten)**

**10 x 5 = 50 Marks**

4. High frequency jet ventilation
5. Types of nebulizers
6. Oxygen toxicity
7. Lung volumes
8. High altitude pulmonary edema
9. Surfactant
10. Drowning
11. Obstructive sleep apnea
12. PEEP
13. Inverse ratio ventilation
14. Metabolic acidosis
15. Procedure of collecting blood for ABG

**SHORT ANSWERS (Answer any Ten)**

**10 x 3 = 30 Marks**

16. Bronchospasm
17. Inhalational injury
18. Cough variant asthma
19. Therapeutic hypothermia
20. Barotrauma
21. Calculation of body surface area
22. AVAPS
23. Spirometry
24. Bronchodilators
25. Hyperbaric oxygen therapy
26. Ventilatory management in head injury patient
27. Hypoxia

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