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Rajiv Gandhi University of Health Sciences, Karnataka

III Year B. Sc. Respiratory Care Technology Degree Examination – OCT-2019

Time: Three Hours **Max. Marks:100 Marks**

APPLIED RESPIRATORY CARE TECHNOLOGY -II

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. Causes and types of hypoxia. Explain oxygen therapy in detail.
2. Explain ventilator waveforms and loops.
3. Indications and contraindications of mechanical ventilation. Explain different artificial airways.

SHORT ESSAYS (Answer any ten) **10 x 5 = 50 Marks**

4. PEEP-advantages, disadvantages and effect on different organs.
5. Noninvasive ventilation.
6. Airway resistance and work of breathing.
7. Mixed venous oxygen saturation.
8. Bronchodilators.
9. CVP monitoring.
10. Oxygen toxicity.
11. Humidification.
12. Dead space ventilation.
13. Respiratory acidosis and alkalosis.
14. Ventilator alarms.
15. Chest physiotherapy.

SHORT ANSWERS (Answer any ten) **10 x 3 = 30 Marks**

16. Nitric oxide.
17. Neuromuscular blocking agents.
18. SIMV mode.
19. Airway suctioning.
20. Pulse oxymetry.
21. Complications of mechanical ventilation.
22. Cardiac output.
23. BIPAP.
24. Propofol.
25. N acetyl cysteine.
26. Care of ventilator circuit.
27. Respiratory quotient.

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