SOUAHU WALLEY

SRI DEVARAJ URS ACADEMY OF HIGHER EDUCATION & RESEARCH

(A DEEMED TO BE UNIVERSITY)

B.Sc. Allied Health Sciences Third Year (Semester-V)

March 2025 Examination B.Sc. Respiratory Therapy

Time: 3 Hrs.

[Max. Marks: 80]

Respiratory Care Technology - Clinical Q.P Code: K5861

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

LONG ESSAY

 $2 \times 10 = 20 \text{ Marks}$

- 1. Define pulmonary edema. explain pathophysiology and add a detailed note on its management
- 2. Define ARDS .write a note on stages, causes, clinical features and management.

SHORT ESSAY $6 \times 5 = 30 \text{ Marks}$

- 3. Explain in detail about pulmonary tuberculosis
- 4. Write the advantages and disadvantages of DPI
- 5. Define pneumonia, classification, pathophysiology, signs and symptoms
- 6. Define cough, classification, causes of cough, mechanism and treatment of cough
- 7. Advantages and disadvantages of ultrasonic nebulizer
- 8. Write a note on high flow oxygen devices

SHORT ANSWERS $10 \times 3 = 30 \text{ Marks}$

- 9. Define cyanosis. and mention its type
- 10. Describe the pathophysiology of pulmonary tuberculosis.
- 11. Describe the Chest x ray features of pneumonia
- 12. Write a note on management of status asthmaticus
- 13. Describe the mechanism of cough
- 14. Name few viral infections that affect respiratory system
- 15. Write a note on diagnosis of bronchial asthma
- 16. Describe the Chest x ray features of Post TB Sequelae
- 17. Berlin's definition of ARDS
- 18. Write a note on Brownian diffusion

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B.Sc. Allied Health Sciences Third Year (Semester-V)

March 2025 Examination B.Sc. Respiratory Therapy

Time: 2.30 Hrs. [Max. Marks: 80]

Respiratory Care Technology Applied Q.P Code: K5862

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

LONG ESSAY $2 \times 10 = 20 \text{ Marks}$

- 1. Write in detail about troubleshooting of ventilator alarms
- 2. Write in detail about lung compliance and airway resistance

SHORT ESSAY $6 \times 5 = 30 \text{ Marks}$

- 3. Write a note on Lung compliance
- 4. Write a note Phase variables
- 5. Explain in detail about strategies to improve oxygenation status
- 6. Application of chest inspection, percussion and auscultation
- 7. Write a note Respiratory Acidosis
- 8. Write a note Sodium abnormalities

SHORT ANSWERS $10 \times 3 = 30 \text{ Marks}$

- 9. Write any three differences between CMV and Support mode
- 10. Write a note on Hyperkalemia
- 11. Troubleshoot low pressure alarm
- 12. Phase variables of CMV mode
- 13. Define trans airway pressure with formula
- 14. Causes of extracellular fluid deficiency
- 15. Causes of respiratory alkalosis
- 16. Phase variable of synchronized intermittent mandatory ventilation (SIMV) mode.
- 17. Difference between side-stream and main-stream capnography
- 18. Complication of PEEP

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B.Sc. Allied Health Sciences Third Year (Semester-V)

March 2025 Examination B.Sc. Respiratory Therapy

Time: 2.30 Hrs. [Max. Marks: 80]

Respiratory Care Technology - Advanced Q.P Code: K5863

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

LONG ESSAY $2 \times 10 = 20 \text{ Marks}$

- 1. Describe in detail about surfactant therapy
- 2. Describe in detail about initial ventilator settings.

SHORT ESSAY $6 \times 5 = 30 \text{ Marks}$

- 3. Causes of weaning failure
- 4. Discuss in detail about hazards and complications of mechanical ventilation.
- 5. Types of surfactants and dosages
- 6. Mechanism of gas exchange in high frequency ventilation
- 7. Advantages of arterial blood gas sampling
- 8. Equipment's used in neonatal endotracheal intubation

SHORT ANSWERS $10 \times 3 = 30 \text{ Marks}$

- 9. Timings of surfactant therapy
- 10. Oxygenation criteria in weaning
- 11. Define Anion gap
- 12. What is Allen's test
- 13. What is Standard base excess
- 14. List the sites of taking abg
- 15. Classify neonates based on gestation
- 16. what are the criteria of weaning success
- 17. List the condition that hinders successful weaning
- 18. What is Standard bicarbonate with normal and abnormal range

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