



SRI DEVARAJ URS ACADEMY OF HIGHER EDUCATION & RESEARCH

(A DEEMED TO BE UNIVERSITY)

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

Examination

B.Sc. Respiratory Care Technology (RCT)

Time : 3 Hrs.

[Max. Marks : 100]

Respiratory Care Technology Clinical

Q.P Code : J6891

Your answers should be specific to the questions asked.

Draw neat labelled diagrams wherever necessary.

Long Essay (no choice)

2×10=20 Marks

1. write a note in detail about metered dose inhaler, and its technique and labeled diagram
2. explain in detail about capnography

Short Essay (Answer any 10)

10×5=50 Marks

3. write a note on pulse oximeter
4. Write a note on oral airway
5. write indication contraindications and acceptability criteria of pulmonary function test
6. Write a note on endotracheal tube with labelled diagram
7. write a note on small volume nebulizer with diagram
8. explain about transcutaneous oxygen and c02 monitor
9. write about goals complications of care of long-term ventilation
10. explain in detail about LMA
11. Write a note Dry powder inhaler
12. Describe about Small volume nebulizer along with labelled diagram
13. Describe in ultrasonic nebulizer
14. Write a note on reservoir oxygen therapy devices.

Short answer (Answer any 10)

10×3=30 Marks

15. write indications of aerosol therapy
16. write types of nasal airway and its indications
17. types and indications of tracheostomy tube
18. Write uses of capnography
19. Write the advantages and disadvantages of dry powder inhaler
20. Write types and parts of ET tube
21. Describe repeatability criteria of PFT
22. write complications of long-term airway
23. explain lung compliance
24. Draw a neat labelled diagram of LMA
25. Write goals of long-term airway
26. Write the types of LMA



SRI DEVARAJ URS ACADEMY OF HIGHER EDUCATION & RESEARCH

(A DEEMED TO BE UNIVERSITY)

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

Examination

B.Sc. Respiratory Care Technology (RCT)

Time : 3 Hrs.

[Max. Marks : 100]

Respiratory Care Technology Applied

Q.P Code : J6892

Your answers should be specific to the questions asked.

Draw neat labelled diagrams wherever necessary.

Long Essay (no choice)

2×10=20 Marks

- 1 . explain in detail about tracheostomy
2. Explain effects of positive pressure ventilation on lungs .

Short Essay (Answer any 10)

10×5=50 Marks

3. draw the graph of flow volume loop in
 - A)air trapping
 - B)air leak
 - c)increased airway resistance
4. Write a note oxygen dissociation curve and graph
5. write a note on anticholinergic agents
6. Write hemodynamic consideration of positive pressure ventilation
7. write a note on drugs used to improve ventilation
8. explain in detail about intubation procedure
9. write a note on air trapping
10. explain in detail about LMA
11. Write a note Dry powder inhaler
12. Describe about Small volume nebulizer along with labelled diagram
13. Describe in ultrasonic nebulizer
14. Write a note on reservoir oxygen therapy devices.

Short answer (Answer any 10)

10×3=30 Marks

15. write extubation procedure
16. write indications of humidification therapy
17. write types of artificial airways
18. name anticholinergic drugs
19. explain complications of artificial airway
20. draw the PV loop of lung compliance
21. write mechanism action of salbutamol
22. write the risk of developing auto peep
23. draw a flow chart of effect of PPV on cardiovascular considerations
24. Draw a neat labelled diagram of LMA
25. Write goals of long term airway
26. write equipment used in extubation



SRI DEVARAJ URS ACADEMY OF HIGHER EDUCATION & RESEARCH

(A DEEMED TO BE UNIVERSITY)

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

April 2023 Examination

B.Sc. Respiratory Care Technology (RCT)

Time : 3 Hrs.

[Max. Marks : 100]

Respiratory Care Technology Advanced

Q.P Code : J6893

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

Long Essay (no choice)

2×10=20 Marks

1. Explain in detail about hyperbaric oxygen therapy
2. Explain in detail about home mechanical ventilation

Short Essay (Answer any 10)

10×5=50 Marks

3. List the types of sleep apnea, its risk factors and treatment
4. Explain in detail about high altitude sickness
5. write about indications of hyperbaric oxygen therapy
6. Pulmonary functioning test
7. Explain transport during ventilation
8. Write a note on barotrauma
9. Explain in detail about CPAP and BiPAP
10. Explain acceptability and repeatability criteria of PFT spirometry
11. Write a note on oxygen toxicity
12. Pulmonary edema
13. Explain in detail about drowning
14. explain pathophysiology of pulmonary edema

Short answer (Answer any 10)

10×3=30 Marks

15. Interpretation of obstructive and restrictive pattern
16. List the risk factors of drowning
17. Write indications and contraindications of non-invasive positive pressure ventilation
18. Goals of home mechanical ventilation
19. High altitude sickness
20. List contraindications of hyperbaric oxygen therapy
21. State preventive measures of oxygen toxicity
22. Signs and symptoms of pulmonary edema
23. Complications of oxygen toxicity
24. List signs and symptoms of sleep apnea
25. Indications of mechanical ventilation
26. lung compliance
