



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 in detail about capnography
2. Describe in detail about Endo tracheal tube.

Short Essay (Answer any 10)

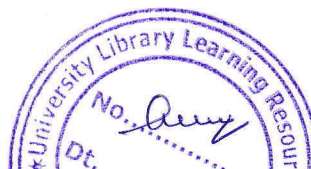
10×5=50 Marks

- 3 Describe about pulse oximeter
4. Write a note Metered dosed inhaler
5. Describe about Nasopharyngeal airway
6. Write a note on manual resuscitation bag
7. Describe in detail tracheostomy tube
8. Describe in detail transcutaneous oxygen monitoring
9. Describe about laryngeal mask airway
10. Describe oropharyngeal airway
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 the difference between low and high flow oxygen therapy devices
16. Describe about indication and adverse effect of MDI
17. Describe the optimal technique of using SVN
18. Write the rationale between PaCO₂ and EtCO₂
19. Write the difference between USN and SVN
20. Write a note abnormal capnography
21. Describe the methods of confirmation of ET tube in lungs
22. Describe the uses of nebulizer therapy
23. Write the difference between DPI and MDI
24. Draw a neat labelled of ET tube
25. Write note on uses of LMA
26. Write the insertion technique of OPA.





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

September 2022 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 effects of positive pressure ventilation on pulmonary system
2. Explain in detail about tracheostomy

Short Essay (Answer any 10)

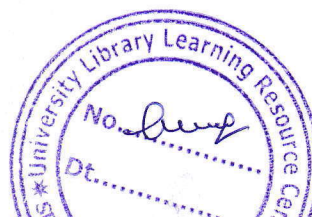
10×5=50 Marks

3. Write effects of PEEP on hemodynamics considerations
4. Write the procedure of intubation
5. Write a note on anticholinergic agents
6. Write classifications of bronchodilators with examples and write a note on methylxanthines
7. Write complications of artificial airway and write a note on extubation
8. Explain oxygen dissociation curve and graph
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. Draw the graph of flow volume loop in
 - A) Air trapping
 - B) Air leak
 - c) Increased airway resistance
16. Write complications of humidity therapy
17. Write mechanism of action and uses of salbutamol
18. Write indications of tracheostomy
19. Explain extubation procedure
20. Write confirmation of ET tube placement
21. Methods of reducing auto peep
22. Write conditions predisposing to barotrauma
23. Write indications of tracheostomy
24. Draw a neat labelled diagram of LMA
25. Write goals of long-term airway
26. Draw a flow chart of effects of PPV on cardiovascular considerations



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

September 2022 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. Write in detail about non-invasive ventilation
2. Write in detail about home mechanical ventilation, its indications, interfaces available, complications and outcomes

Short Essay (Answer any 10)

10×5=50 Marks

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

Short answer (Answer any 10)

10×3=30 Marks

15. Write complications of NIV
16. List the diagnostic test to diagnose pulmonary edema
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. Interpretation of obstructive and restrictive pattern
22. State preventive measures of oxygen toxicity
23. List the risk factors of drowning
24. Signs and symptoms of pulmonary edema
25. Complications of oxygen toxicity
26. List signs and symptoms of sleep apnea

