



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

2 X 10 = 20 Marks

1. Define Aerosol therapy. Briefly explain about Ultrasonic nebulizer.
2. Explain detail notes on Airway protection. Brief about ET intubation, procedure, contraindications of ET intubation

Short Essay (Answer any Ten)

10 X 5 = 50 Marks

3. Describe in detail about weaning criteria
4. Brief notes on emergency intubation.
5. Brief notes on Jet nebulizer.
6. Explain briefly about SPO2 monitoring
7. Complications of long term intubation
8. Manual resuscitator bag and it's Contraindications and indications
9. Mention Oropharyngeal airways size and color appropriate to patients age
10. Explain briefly about Tracheostomy procedure.
11. Transcutaneous oxygen monitor
12. Nasopharyngeal airways indications and contraindications
13. Artificial airways indications
14. Add a note on Capnography.

Short Answers (Answer any Ten)

10 X 3 = 30 Marks

15. Indications of Nasal intubation
16. Draw a neat diagram of ET tube and label it's parts
17. Benefits of Allen's test
18. Indications of capnography
19. Mention the sites of Arterial blood sampling
20. Draw a neat labelled diagram of cuffed tracheostomy tube
21. Different types of tracheostomy tube
22. Indications of AMBU bag
23. OPA insertion technique
24. Types of nebulizers
25. NPA insertion technique
26. Draw neat labelled diagram of Ultrasonic nebulizer



(A DEEMED TO BE UNIVERSITY)

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

March 2024 Examination

B.Sc. Respiratory Therapy

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

2 X 10 = 20 Marks

1. Define ECG. Explain its normal waveform and write a notes on shockable Rhythm with appropriate ECG waveform.
2. Define airway management. Explain detail notes on endotracheal intubation

Short Essay (Answer any Ten)

10 X 5 = 50 Marks

3. Sedative drugs used during mechanical ventilation.
4. Central venous pressure monitoring
5. Define neuromuscular blocking agents and briefly explain about nitric oxide.
6. Anaesthesia gases effect on PEEP .
7. Define cardiac output and mention normal cardiac output with appropriate formula.
8. Classification of various alarm in mechanical ventilation.
9. Define humidification and briefly explain about HME.
10. Pulmonary artery pressure monitoring.
11. Detail notes on tracheostomy procedure.
12. Indications and contraindications of tracheostomy procedure
13. Briefly explain about premature atrial contraction and premature ventricular contraction with proper ECG waveform
14. Define 1st degree, 2nd degree and 3rd degree heart block

Short Answers (Answer any Ten)

10 X 3 = 30 Marks

15. Define ECG .
16. Propofol during MV
17. Draw a neat labelled diagram of normal ECG waveform
18. Indications of ET intubation
19. MDI
20. Phase variables of volume control mode
21. Contraindications of tracheostomy tube
22. Indications of ECG
23. Phase variables of pressure control mode
24. How to measure Rate in ECG
25. How to measure Rhythm in ECG
26. Define active humifier

* * *



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

2 X 10 = 20 Marks

1. Define pulmonary edema and briefly explain about non- cardiogenic pulmonary edema
2. Define drowning. Briefly explain about pathophysiology of saltwater drowning and freshwater drowning .

Short Essay (Answer any Ten)

10 X 5 = 50 Marks

3. Define home mechanical ventilation and it's goals.
4. Indications of Non invasive positive pressure ventilation.
5. Briefly explain about oxygen toxicity
6. Explain briefly about CPAP
7. Indications and contraindications of BIPAP
8. Briefly explain about non cardiogenic pulmonary edema
9. Caissons disease
10. Patient selection in home mechanical ventilation
11. Explain Life support and Life sustainable ventilation
12. Hyperbaric oxygen therapy
13. Indications and contraindications of home mechanical ventilation.
14. Pathophysiology of pulmonary edema

Short Answers (Answer any Ten)

10 X 3 = 30 Marks

15. Management of drowning
16. Define NIV
17. Mechanism of oxidative damage
18. Define oxygen toxicity
19. Define cardiogenic pulmonary edema
20. Etiology of cardiogenic pulmonary edema
21. Define near drowning
22. Define barotrauma
23. Difference between CPAP and BIpap
24. Mention various types of mask use in Non invasive positive pressure ventilation
25. Define sleep apnea
26. Clinical manifestations of pulmonary edema