Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Sc. Respiratory Care Technology Examination – 30-Jul-2021

Time: Three Hours | Max. Marks: 100 Marks

Clinical care respiratory care technology Paper - I (RS2)

Q.P. CODE: 2929

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. Describe community acquired pneumonias including clinical features, diagnosis management and prevention.
2. Describe the causes, pathophysiology and management of COPD including indications for long term O2 therapy.
3. Discuss about pneumothorax. How do you manage pleural air leak?

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

4. Pleural effusion-causes, thoracentesis and care of indwelling catheter.
5. Bronchiectasis.
6. Clinical features of CHF and ARDS.
7. Long term management of Asthma.
8. Diagnosis and prophylaxis of acute pulmonary embolism.
9. Treatment of smoke inhalation and burns.
10. AARC practice guidelines for pulse oxymetry and capnography.
11. PFT findings in obstructive versus restrictive lung disease.
12. Causes and management of pulmonary edema.
13. Treatment strategies in ARDS.
14. Physiologic concerns associated with obesity.
15. Clinical features of CO and cyanide poisoning.

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

16. Risk factors for lung cancer.
17. How do you avoid VILI in ARDS.
18. Trauma patient's ventilatory management.
19. Respiratory management of near drowning.
20. As A Grading.
21. Clinical features of lung abscess.
22. Classification of pulmonary hypertension.
23. Indications for fibreoptic bronchoscopy.
24. Mallampatti classification.
25. Respiratory consequences of malnutrition.
26. Noninvasive ventilation in chronic respiratory conditions.
27. GOLD classification for severity of COPD.

*****

Rajiv Gandhi University of Health Sciences, Karnataka

III Year B. Sc. Respiratory Care Technology Degree Examination – 02-Aug-2021

Time: Three Hours | Max. Marks:100 Marks

Applied Respiratory Care Technology -II (RS2)

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. Define NIV and explain its modes, indications, contraindications and complications.
2. Discuss various strategies to improve ventilation and oxygenation based on respiratory therapy.
3. Hypoxia-causes and various oxygen therapy

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

4. ETCO2
5. PCV mode
6. Chest physiotherapy
7. Neuromuscular blocking agents
8. Hyperkalemia
9. SIMV
10. Bronchodilators
11. Caisson's disease
12. Troubleshooting ventilator alarms and events
13. Endotracheal intubation
14. Bronchoscopy-indications, contraindications and complications
15. ECMO

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

16. Importance of smoking cessation
17. Speaking valve in tracheostomy
18. Deep breathing exercises
19. Flow meters
20. NRBM
21. N-acetyl cystiene in respiratory therapy
22. Vital signs
23. Weaning failure
24. CPAP
25. Airway suctioning
26. Extubation
27. LMA

Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Sc. Respiratory Care Technology Degree Examination - 04-Aug-2021

Time: Three Hours | Max. Marks: 100 Marks

Advanced Respiratory Care Technology - III (RS2)

Q.P. CODE: 2931

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. Discuss home mechanical ventilation.
2. Discuss NIV and indications.
3. Discuss about respiratory management of a patient with neuromuscular disease.

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

4. Sedation in ICU
5. Mini tracheostomy
6. Therapeutic hypothermia
7. SIMV
8. Laisson's disease
9. Stridor
10. Spirometry extrathoracic obstruction
11. Liquid ventilation
12. Hyperkalemia
13. Hypomagnesemia
14. Weaning failure
15. Indication and contraindication of PFT

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

16. Diffusion studies
17. Chest physiotherapy
18. Bronchiectasis
19. Cystic fibrosis
20. Devices to assist expertoration
21. Intercostals drain care
22. Pneumothorax in ICU
23. Chylothorax
24. Palliative care of end stage lung cancer
25. Treatment modalities of cough
26. Tracheostomy care
27. Extubation

*****