

Question Paper

Exam Date & Time: 21-May-2024 (10:00 AM - 01:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

SIXTH SEMESTER B.Sc. RESPIRATORY THERAPY DEGREE EXAMINATION - MAY/JUNE 2024
SUBJECT RES3201 - CHRONIC RESPIRATORY DISEASE MANAGEMENT
(2020 SCHEME)

Marks: 100

Duration: 180 mins.

Answer all the questions.

- 1) Explain the pulmonary rehabilitation approach for patients with: (20)
 - a) Interstitial Lung Disease
 - b) Obesity-related respiratory disorder
 - c) Cystic fibrosis
 - d) Pulmonary hypertension(5+5+5+5 = 20marks)
- 2) Explain briefly about developing the individualized selfmanagement program. Explain in detail about all the educational areas in the pulmonary rehabilitation program. (20)
- 3) Summarize the pharmacological and behavioural management of nicotine dependence. (10)
- 4) Outline pulmonary rehabilitation modifications for patients undergoing lung volume reduction surgery. (10)
- 5A) Outline the clinical competency guidelines required for pulmonary rehabilitation professionals. (5)
- 5B) Summarize the dyspnea spiral. (5)
- 5C) Outline the need for post-rehabilitation maintenance. (5)
- 5D) Describe the duties and responsibilities of the staff in providing comprehensive pulmonary rehabilitation to patients. (5)
- 5E) Explain the Interventions to Improve Psychosocial Functioning. (5)
- 5F) Explain the strategies to improve program success. (5)
- 6A) List any FOUR members of the interdisciplinary team involved in pulmonary rehabilitation. (2)
- 6B) List any FOUR modes of exercise training. (2)
- 6C) List any FOUR exercise assessment equipment's in pulmonary rehabilitation. (2)
- 6D) Enlist any TWO factors that reduce the 6MWD and TWO factors that increase the 6MWD. (2)
- 6E) List any TWO airway clearance devices used in pulmonary rehabilitation. (2)

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Question Paper

Exam Date & Time: 23-May-2024 (10:00 AM - 01:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

SIXTH SEMESTER B.Sc. RESPIRATORY THERAPY DEGREE EXAMINATION - MAY/JUNE 2024
SUBJECT: RES3222 - MECHANICAL VENTILATION - II
(2020 SCHEME)

Marks: 100

Duration: 180 mins.

Answer all the questions.

- 1) List the indications, advantages, disadvantage and complications of APRV mode and explain the initiation, monitoring, and weaning from APRV mode. (20)
(4+2+2+2+10 = 20 marks)
- 2) Define ventilator-associated pneumonia (VAP). Explain the pathophysiology, diagnostic criteria, and management of ventilator-associated pneumonia. Add a note on VAP bundle used in the ICU. (20)
(2+5+5+5+3 = 20 marks)
- 3) Explain in detail about the beneficial and adverse effects of PPV on heart and thoracic vessels. (10)
- 4) List the weaning criteria and weaning indices. (10)
- 5A) List the different patient-related and ventilator-related problems. (5)
- 5B) List the complications of using Noninvasive positive pressure ventilation (NIPPV). (5)
- 5C) List the goals for long-term mechanical ventilation. (5)
- 5D) List the indication for High-frequency oscillatory ventilation (HFOV). (5)
- 5E) Explain the use of Heliox in different clinical conditions. (5)
- 5F) Explain normal ventilation-perfusion matching in the pulmonary system. (5)
- 6A) List the indications for Neutrally adjusted ventilator assist (NAVA). (2)
- 6B) List any TWO condition that causes increase in dead space. (2)
- 6C) List any TWO non-Respiratory factors for weaning. (2)
- 6D) List any TWO low pressure alarm. (2)
- 6E) List any TWO indications for the use of sedatives. (2)

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