

Question Paper

Exam Date & Time: 01-Jun-2019 (02:00 PM - 04:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

SIXTH SEMESTER B.Sc. RESPIRATORY THERAPY DEGREE EXAMINATION - MAY/JUNE 2019
SUBJECT: BRES 304 - CHRONIC RESPIRATORY DISEASE MANAGEMENT
(2016 SCHEME)
Saturday, June 01, 2019 (14.00 - 16.00)

Marks: 50

Duration: 120 mins.

Answer all the questions.

- 1A) A 62 year old male with 30 pack year smoking history was referred for Pulmonary Rehabilitation program. His medical regimen includes inhaled steroid combination and a long-acting anti-muscarinic & Theophylline. Plan a pulmonary rehabilitation strategy for this patient who has frequent respiratory infections. (6)
- 1B) Add a note on smoking cessation. (4)
- 2) Explain, what are the guidelines for Six Minute Walk Test? Mention the contraindications for 6MWT. (7+3 = 10 marks) (10)
- 3A) Inspiratory Muscle Training (5)
- 3B) Outline the importance of Bronchodilators and oxygen in Pulmonary Rehabilitation. (5)
- 3C) Explain the goals of paediatric pulmonary rehabilitation. (5)
- 3D) Explain Psychosocial assessment in Pulmonary Rehabilitation. (5)
- 4A) What is the scope of Pulmonary Rehabilitation? (2)
- 4B) What are the primary components of Emergency procedures in Pulmonary Rehabilitation? (2)
- 4C) How do you assess the outcome of Pulmonary Rehabilitation? (2)
- 4D) Mention four Exclusion criteria for Lung Transplantation. (2)
- 4E) Modified Borg Scale. (2)

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Question Paper

Exam Date & Time: 06-Jun-2019 (02:00 PM - 04:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

SIXTH SEMESTER B.Sc. RESPIRATORY THERAPY DEGREE EXAMINATION - MAY/JUNE 2019
SUBJECT: BRES 306 - MECHANICAL VENTILATION II
(2016 SCHEME)

Thursday, June 06, 2019 (14.00 - 16.00)

Answer ALL questions.

Marks: 50

Duration: 120 mins.

Long Answers:

- 1) How would you explain the rationale for long term ventilation for a patient suffering from neuromuscular disease to the caregiver? (10)
- 2) Write the indications, initial settings and complications of APRV mode of ventilation. (3+4+3 = 10 marks) (10)

3) Short Answer:

- 3A) List the types of patient ventilator asynchrony and how to trouble shoot it? (5)
- 3B) Respiratory specific management to prevent ventilator associated pneumonia. (5)
- 3C) Describe the weaning criteria and enumerate four weaning indices with the acceptable values to assess the ventilatory performance. (3+2 = 5 marks) (5)
- 3D) Indications and complications for CPAP in neonates. (5)

4) Very Short Answer:

- 4A) Write the clinical criteria for the diagnosis of ventilator associated pneumonia. (2)
- 4B) Write four airway related problems that can lead to sudden respiratory distress. (2)
- 4C) Clinical benefits of non-invasive ventilation. (2)
- 4D) Effect of positive pressure ventilation on pulmonary vascular resistance. (2)
- 4E) Draw a neat labelled pressure time graph for the static ventilator condition. (2)

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