

**Rajiv Gandhi University of Health Sciences****Master of Physiotherapy Degree Examination - OCT-2018**

[Time: 3 Hours]

(Max. Marks: DM)

Cardio Respiratory Disorders**Q•P. CODE: 8126**

Your answers should be specific to the questions asked.

Draw neat, labeled diagrams wherever necessary. Answer all questions

LONG ESSAY**2 X 20 = 40 Marks**

- 1 A 72 year old patient of COPD having co-morbidities of Diabetes and Coronary artery disease, had a sudden onset of acute respiratory failure with ABG value of pH:7.29, PCO₂:60 mmHg, PaO₂:56 mmHg, mm1-100₃: -20 mmol, SpO₂:82% was intubated and with SIMV mode on ventilator and PEEP of 8 cms H₂O and FI02:60% from the following case scenario,
 - a) Identify probable complications
 - b) Interpret the findings and describe the ICU specific management
 - c) Plan a Physiotherapy management strategy giving evidences for the same
- 2 Explain the biomechanical alterations of the Thoracic cage in a patient with Kyphoscoliosis. Add a brief note on the pulmonary functions in these patients.

SHORT ESSAY**6 X 10 = 60 Marks**

- 3 Devise a Pulmonary rehabilitation program for a 50 year old male COPD patient, whose six minute walk distance is 310 metres with complaints of breathlessness during activities of daily living
- 4 Plan an assessment for weight management program for a 25 year old girl with BM of 31, who is a case of polycystic ovarian syndrome. In addition write a brief note on the outcome measures used in this scenario.
- 5 Write in brief the common ionotropes used in critical care patients and give the rationale of early mobilization intervention in patients on ionotropes.
- 6 Outline the various management strategies for adult respiratory distress syndrome with recent advances to support the same
- 7 Write in brief about the pathophysiology of Deep vein thrombosis (DVT). Mention any four risk factors and outline the role of Physiotherapy in the prevention and management of DVT.
- 8 Describe in brief a Cardiac rehabilitation program for a patient in Heart failure with preserved ejection fraction.

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