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## MANIPAL UNIVERSITY

SECOND YEAR M.Sc. (RESPIRATORY THERAPY) DEGREE EXAMINATION–MAY/JUNE 2013

**SUBJECT: PULMONARY REHABILITATION**

(Common for both Neonatal & Paediatric Respiratory Care and Adult Cardio Respiratory Care)

Monday, June 03, 2013

Time: 10:00 – 13:00 Hrs.

Max. Marks: 80

1. What are the indications for physical medicine interventions of patients with neuromuscular weakness and how do you rehabilitate them?

(6+10 = 16 marks)

2. Diagnosis and management of tobacco dependence.

(8+8 = 16 marks)

3. **Write short notes on:**

3A. Rehabilitation in Non COPD lung disease patients.

3B. Noninvasive ventilation in pulmonary rehabilitation.

3C. Rehabilitation of Paediatric patients with chronic lung disease.

3D. Home mechanical ventilation.

3E. Sleep disorders in patients with pulmonary diseases.

3F. Role of Respiratory Therapist in pulmonary rehabilitation.

(8×6 = 48 marks)



**MANIPAL UNIVERSITY**

SECOND YEAR M.Sc. (RESPIRATORY THERAPY) DEGREE EXAMINATION – MAY/JUNE 2013

**SUBJECT: ADVANCED RESPIRATORY SCIENCE – II**

(Common for both Neonatal &amp; Paediatric Respiratory Care and Adult Cardio Respiratory Care)

Monday, May 27, 2013

Time: 10:00 – 13:00 Hrs.

Max. Marks: 80

✍ **Draw diagram wherever necessary.**

1. Discuss the ventilatory graphics of pressure ventilation, volume ventilation and its changes with change in lung characteristics.

(6+6+4 =16 marks)

2. Define Neurally adjusted ventilatory assist ventilation. What is the working mechanism in this new technology? Discuss its beneficial effects with reference to literature.

(2+8+6 = 16 marks)

**3. Short notes:**

- 3A. Davenport Nomogram.  
3B. Pressure regulated volume control ventilation.  
3C. Patient related problem in trouble shooting.  
3D. Heliox therapy.  
3E. Oxygen consumption.  
3F. ARDS new guidelines.

(8×6 = 48 marks)



Reg. No.

## MANIPAL UNIVERSITY

SECOND YEAR M.Sc. (RESPIRATORY THERAPY) DEGREE EXAMINATION–MAY/JUNE 2013

**SUBJECT: EMERGENCY MEDICAL SERVICES**  
(SPECIALTY: ADULT CARDIO RESPIRATORY CARE)

Wednesday, May 29, 2013

Time: 10:00 – 13:00 Hrs.

Max. Marks: 80

1. Describe the rate, rhythm characteristics, symptoms and drug of choice of

1A. Atrial Fibrillation

1B. Supraventricular tachycardia

1C. Premature ventricular contraction

1D. Third degree heart block

(4×4 = 16 marks)

2. Describe the significance and components of post resuscitation life support

(6+10 = 16 marks)

3. Write short notes on:

3A. Adenosine.

3B. Bedside pulmonary artery catheterization: sites, techniques and complications.

3C. Tension pneumothorax.

3D. Algorithm for suspected stroke patients.

3E. Emergency Cardiac pacing.

3F. Airway management in trauma.

(8×6 = 48 marks)



Reg. No.

## MANIPAL UNIVERSITY

SECOND YEAR M.Sc. (RESPIRATORY THERAPY) DEGREE EXAMINATION–MAY/JUNE 2013

**SUBJECT: CRITICAL CARE MEDICINE – II**  
**(SPECIALTY: ADULT CARDIO RESPIRATORY CARE)**

Friday, May 31, 2013

Time: 10:00 – 13:00 Hrs.

Max. Marks: 80

1. Describe the clinical features, pathophysiology and management of myasthenia gravis.  
(4+4+8 = 16 marks)
  
2. What is acute myocardial infarction? What are the clinical features of acute myocardial infarction? What are the investigations used to confirm the diagnosis of myocardial infarction? Give an account of the initial management of acute myocardial infarction.  
(3+3+4+6 = 16 marks)
  
3. **Write short notes on:**
  - 3A. Intra aortic balloon pump.
  - 3B. Massive gastrointestinal bleed.
  - 3C. Hepatic encephalopathy.
  - 3D. Pacemakers.
  - 3E. Electrocardiographic features of acute myocardial infarction.
  - 3F. Infective endocarditis.

(8×6 = 48 marks)

