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Reg. No.		58151-89075			

SECOND YEAR M.Sc. (RESPIRATORY THERAPY) DEGREE EXAMINATION – JUNE 2015

SUBJECT: ADVANCED RESPIRATORY SCIENCE – II (SPECIALIZATION: ADULT CARDIO RESPIRATORY CARE) (2013 REGULATION)

Monday, June 01, 2015

Time: 10:00 - 13:00 Hrs.

Max. Marks: 80

- 1. Indications of pulmonary function testing. Discuss the interpretation of pulmonary function test report.

(8+8 = 16 marks)

2. Discuss the goals of long term ventilation, also include the indications for patient selection and equipment selection.

(8+4+4 = 16 marks)

- 3. Write short notes:
- 3A. Heliox therapy
- 3B. High frequency oscillatory ventilation
- 3C. Common alarm situation
- 3D. Pressure regulated volume control
- 3E. Airway Pressure Release Ventilation
- 3F. Aerosol Therapy during Non-Invasive ventilation



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SECOND YEAR M.Sc. (RESPIRATORY THERAPY) DEGREE EXAMINATION- JUNE 2015

SUBJECT: EMERGENCY MEDICAL SERVICES
(SPECIALTY: ADULT CARDIO RESPIRATORY CARE)
(2013 REGULATION)

Wednesday, June 03, 2015

Time: 10:00 - 13:00 Hrs.

Max. Marks: 80

#### Draw diagrams wherever necessary.

1. A 56 year old man came to casualty with complains of dizziness and shortness of breath. On examination the patient's heart rate is 40 beats per minute; respiratory rate of 25 breaths per minute, blood pressure of 90/60 mmHg. Discuss on causes and treatment of Bradycardia.

(16 marks)

How will you manage a patient with cervical head injury at the site of an accident scenario?
 (16 marks)

#### 3. Short notes:

- 3A. Discuss the mechanism of action, indications, dosage and their precautions of epinephrine and calcium gluconate
- 3B. List 5 h's and 5 t's
- 3C. Adult Chain of survival
- 3D. Discuss on defibrillator
- 3E. Discuss on the algorithm of a paediatric basic life support
- 3F. Causes of cardiac arrhythmias



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SECOND YEAR M.Sc. (RESPIRATORY THERAPY) DEGREE EXAMINATION-JUNE 2015

SUBJECT: CRITICAL CARE MEDICINE – II (SPECIALTY: ADULT CARDIO RESPIRATORY CARE) (2013 REGULATION)

Friday, June 05, 2015

Time: 10:00 - 13:00 Hrs.

Max. Marks: 80

1. Describe etiology, pathophysiology, clinical features and diagnosis and management of spinal cord injuries.

(2+2+2+4+6 = 16 marks)

2. Patient selection for renal transplantation. Describe Pre and postoperative ICU management of renal transplant patients.

(4+6+6=16 marks)

- 3. Write short notes on:
- 3A. Management of severe Hyperkalemia
- 3B. Brain specific therapy in severe head injury
- 3C. Acute upper GI bleeding
- 3D. Hypertensive crisis
- 3E. Hypoxic encephalopathy
- 3F. Cardiac Pacemaker



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SECOND YEAR M.Sc. (RESPIRATORY THERAPY) DEGREE EXAMINATION – JUNE 2015

SUBJECT: ADVANCED PULMONARY REHABILITATION INCLUDING POLYSOMNOGRAPHY (SPECIALIZATION: ADULT CARDIO RESPIRATORY CARE) (2013 REGULATION)

Monday, June 08, 2015

Time: 10:00 - 13:00 Hrs.

Max. Marks: 80

#### ∠ Long notes:

1. Describe Patient goals, Program goals, Philosophy, Code of ethics for the pulmonary rehabilitation specialist.

(16 marks)

2. Describe guidelines of 6 minutes' walk test and emergency procedures during walk test.

(16 marks)

- 3. Short notes:
- 3A. Domains of outcome measurement
- 3B. Lung volume reduction surgery
- 3C. Six minute walk test
- 3D. Dyspnea assessment and management
- 3E. Nutrition assessment and support
- 3F. Home mechanical ventilation



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SECOND YEAR M.Sc. (RESPIRATORY THERAPY) DEGREE EXAMINATION- JUNE 2015

# SUBJECT: MANAGEMENT IN RESPIRATORY CARE (SPECIALTY: ADULT CARDIO RESPIRATORY CARE) (2013 REGULATION)

Wednesday, June 10, 2015

Time: 10:00 - 11:30 Hrs.

Max. Marks: 40

1. Critically examine the management principles of Henry Fayol and F.W. Taylor.

(8 marks)

2. Discuss the various methods of performance appraisal. What are the major errors that should be avoided for fair appraisal?

(6+6 = 12 marks)

- 3. Short notes:
- 3A. Manpower planning
- 3B. Functions of Attitude
- 3C. Key points to consider with regard to maintenance of equipment in an intensive care unit
- 3D. Methods used to evaluate the effectiveness of a training programme

