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SECOND YEAR M.Sc. (RESPIRATORY THERAPY) DEGREE EXAMINATION – JUNE 2014

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

Monday, June 02, 2014

Time: 10:00 - 13:00 Hrs.

Max. Marks: 80

- Draw diagram wherever necessary.
- 1. Explain the importance and types of High Frequency Ventilation. Add a note on the mechanism.

(6+4+6=16 marks)

2. Discuss on the importance of hemodynamic monitoring of mechanically ventilated patients. Add a note on the complications.

(16 marks)

- 3. Short notes:
- 3A. Discuss on the importance of ECMO
- 3B. Discuss the concept of APRV as a newer mode.
- 3C. Review of arterial blood gases on alveolar ventilation
- 3D. Heliox therapy
- 3E. Aerosol therapy importance and types of devices
- 3F. Nitrogen wash out test

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SECOND YEAR M.Sc. (RESPIRATORY THERAPY) DEGREE EXAMINATION-JUNE 2014

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

Wednesday, June 04, 2014

Time: 10:00 - 13:00 Hrs.

Max. Marks: 80

∠ Draw diagrams wherever necessary:

1. What are the different types of artificial airways used in emergency medical services? Add a note on foreign body obstruction in adults and infants.

(8+8 = 16 marks)

2. A patient in ICU has developed ventricular tachycardia. The patient is conscious and awake. What is the management required?

The same patient after few minutes became unconscious. What is the management required? Add a note on post resuscitation care.

(6+4+6=16 marks)

3. Write short notes on:

- 3A. Clinical features and management of stroke
- 3B. Algorithm of secondary survey
- 3C. IV Cannula techniques for peripheral veins, femoral veins, internal jugular and sub clavian veins
- 3D. Write in detail about sodium bicarbonate as a drug
- 3E. Explain in detail the steps of endotracheal intubation
- 3F. Discuss in detail about cardio version

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SECOND YEAR M.Sc. (RESPIRATORY THERAPY) DEGREE EXAMINATION-JUNE 2014

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

Friday, June 06, 2014

Time: 10:00 - 13:00 Hrs.

Max. Marks: 80

- Draw diagrams wherever necessary.
- 1. Define Stroke. Discuss in detail on the clinical features, pathophysiology and management of stroke.

(2+3+6+5 = 16 marks)

2. Discuss on the types of heart block and their management.

(8+8 = 16 marks)

- 3. Short notes:
- 3A. Hyperkalemia management in the intensive care unit
- 3B. Clinical features and management of chronic renal failure
- 3C. Evaluation of brain death in the intensive care unit
- 3D. Aetiology and pathophysiology of Acute Pancreatitis
- 3E. Clinical features and management of Cardiac Tamponade
- 3F. Add a note on Intra-aortic balloon pump

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SECOND YEAR M.Sc. (RESPIRATORY THERAPY) DEGREE EXAMINATION-JUNE 2014

SUBJECT: PULMONARY REHABILITATION (SPECIALIZATION: ADULT CARDIO RESPIRATORY CARE)

Monday, June 09, 2014

Time: 10:00 - 13:00 Hrs.

Max. Marks: 80

& Long notes:

- 1. Describe the anatomy and physiology of the neurological system under the following heading:
- 1A. Brain divisions
- 1B. Cranial nerves

(8+8 = 16 marks)

- 2. Explain CSA under the following heading:
 - i) Definition
 - ii) Clinical characteristics
 - iii) Pathophysiology
 - iv) Causes
 - v) Treatment

(16 marks)

3. Short notes:

- 3A. Explain on the polysomnography presentation of CSA and OSA
- 3B. Sleep disordered breathing in neuromuscular disease
- 3C. Emergency procedure during walk tests
- 3D. Mechanism of dyspnea and management
- 3E. Exercise training
- 3F. Patient selection and assessment for pulmonary rehabilitation