Q.P. Code: 802614

AUGUST 2016

B.Sc. RESPIRATORY THERAPY SECOND YEAR PAPER IV – EQUIPMENTS IN RESPIRATORY CARE

Answer all questions

- 1. Recommendations for Storage and Use of Medical gases by The National Fire Protection Association and The Compressed Gas Associations.
- 2. Endotracheal Tube Tube Markings, Indications, Contraindications, Technique of Insertion, Confirmation of placement, and Complications of Intubation.
- 3. Non Invasive Ventilation Indication, Contraindication, Interfaces and Steps in Initiating Non Invasive Ventilation.

II. Write notes on:

- 1. Heat Moisture Exchanger Types and Working principle.
- 2. Abnormal waveforms of a Capnograph and its treatment.
- 3. Pitfalls of a Pulseoximeter.
- 4. Safety Mechanisms in AMBU.
- 5. Factors affecting Aerosol Therapy.
- 6. Power Source or Input power of a Ventilator.
- 7. Describe about Macntosh Blade and explain the technique of insertion.
- 8. Non Rebreathing Mask Indications, Principle and Limitations.

III. Short answers on:

- 1. Relative Humidity.
- 2. Beer's and Lambert's law.
- 3. Indications of a Peak Flow Meter.
- 4. Nasal Prongs.
- 5. Isothermic Saturation Boundary.
- 6. Oropharyngeal Airway Indications, Contraindications and Technique.
- 7. Venturi Principle.
- 8. Describe Miller Blade.
- Estimate the duration of gas if a portable liquid O₂ container contains 3 lb of liquid O₂ that supplies an O₂ delivery device running at 2 L/min.
- 10. Determine how long a G cylinder of O_2 with a gauge pressure of 1800 psi set to deliver 6 L/min will last until empty?

Time: Three Hours

I. Elaborate on:

$(3 \times 10 = 30)$

Maximum: 100 Marks

 $(10 \times 3 = 30)$

 $(8 \times 5 = 40)$