

**THE TAMIL NADU M.G.R. MEDICAL UNIVERSITY**

**[AHS 1023]**

**OCTOBER 2023**

**Sub. Code: 1711**

**M.Sc. CRITICAL CARE TECHNOLOGY  
SECOND YEAR (From 2020-2021 onwards)  
PAPER I - GENERAL CRITICAL CARE**

*Q.P. Code: 281711*

**Time: Three hours**

**Answer ALL Questions**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Burns assessment,
  - a) Physical assessment and classification of burns.
  - b) Etiology and pathophysiology of burns.
  - c) Clinical manifestations, Rule of nine in burns.
  - d) Diagnosis and treatment modalities of burns.
  
2. Monitoring gas exchange,
  - a) Pulse oximetry.
  - b) Oxygen consumption.
  - c) Oxygen delivery.
  - a) Capnography.

**II. Write Short notes on:**

**(10 x 6 = 60)**

1. High Flow Nasal Oxygen Therapy (HFNO).
2. Define Pressure Sore. Mention a common Pressure Ulcer Sites. Enumerate the classification of Pressure Ulcer Sites in detail.
3. Define nebulization. Write in detail about types, advantages and disadvantages of inhaled drug therapy.
4. Non- invasive ventilation.
5. Importance of Monitoring Sedation and Analgesia in ICU.
6. Importance of securing ET tube and cuff pressure measurement.
7. Monitoring of ventilator graphics.
8. Explain the basic troubleshooting method in Defibrillator.
9. Significance of Echocardiography in critically ill.
10. Describe Manual in line stabilization?

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