

**DIPLOMA IN CRITICAL CARE TECHNOLOGY
SECOND YEAR**

**PAPER III – CRITICAL CARE TECHNOLOGY, AIRWAYS O₂ THERAPY,
CARE OF PATIENT ON VENTILATOR EQUIPMENT
MAINTENANCE AND TROUBLESHOOTING**

Q.P. Code : 841213

Time : Three Hours

Maximum : 100 Marks

Answer All questions.

I. Elaborate on:

(3 x 10 = 30)

1. Describe the following in detail :
 - a) Modes of Mechanical ventilation.
 - b) Technique used in Suctioning of Endotracheal Tube.
 - c) Managing Hypoxia in a Ventilated Patient.
2. What is the Initial Assessment of Trauma in Emergency? How would you Monitor a patient with severe Head injury in ICU?
3. A patient with Urinary Tract Infection developed Sepsis and Multi organ dysfunction is on Ventilator.
 - a) What are the daily parameters to be monitored?
 - b) What are the prophylaxis for Deep vein Thrombosis and pressure ulcers?
 - c) What are the techniques used in Suctioning Tracheal secretions.

II. Write notes on:

(10 x 5 = 50)

1. Types of Positive Pressure Ventilation.
2. Prevention of Ventilator Acquired Pneumonia.
3. Chest Physiotherapy and Incentive Spirometry.
4. Prevention and management of Bedsores.
5. Modes of Oxygen Therapy.
6. Precautions in managing a patient with Swine flu.
7. Monitoring while transporting a Ventilated patient.
8. Indications for Extubation and Complications after Extubation.
9. Describe Cardiac Tamponade and management.
10. Drugs and dosage for a patient with Hypotension.

III. Short answers on:

(10 x 2 = 20)

1. Types of Blood pressure management.
2. Fumigation.
3. Parts of Laryngoscope.
4. Causes of Upper gastro intestinal bleeding.
5. Organ Donation.
6. Risk factors for Coronary Artery Disease.
7. Level of Tracheal ring for a tracheostomy tube.
8. Medicines used in Nebulizers.
9. Define respiratory acidosis.
10. Colour codes in waste disposal management.