

**B.Sc. CRITICAL CARE TECHNOLOGY
THIRD YEAR**

PAPER I – ICU MONITORING - II

Q.P Code : 801221

Time : Three Hours

Maximum : 100 Marks

Answer All Questions

I. Elaborate on:

(3 x 10 = 30)

1. Describe how you will manage a patient on invasive mechanical ventilation? who is having new worsening hypoxia and the ventilator is giving high peak pressure alarm? Add a note on compliance and resistance of respiratory system.
2. List the parameters measured in a typical Arterial Blood Gas analysis. Describe the approach to diagnose acid-base abnormality. Add a note on anion gap.
3. Outline in brief the management of organophosphorus compound poisoning. How will you monitor such a patient? What steps would you take if such a patient develops hypoxia?

II. Write Notes on:

(8 x 5 = 40)

1. PEEP (Positive End Expiratory Pressure).
2. Transport of head injury patient for CT scan.
3. Glasgow Coma Scale.
4. Draw a 3 bottled chest drainage system.
5. Low flow oxygen delivery devices.
6. Chest Physiotherapy and Postural drainage.
7. Sterilization using ethylene oxide.
8. Chest X-ray findings in Pneumothorax.

III. Short Answers on:

(10 x 3 = 30)

1. List safety precautions while using Defibrillator.
2. List the sites of placement of a central venous catheter.
3. List the indications for mechanical ventilation.
4. Draw and label the Flow-Time trace of ventilator graphic, showing Auto-PEEP (Air trapping).
5. List the nebulized drugs used for bronchodilation.
6. List the drugs used during ACLS for ventricular Fibrillation.
7. List indications of Non-Invasive ventilation.
8. List the investigations done for assessment of Liver Function.
9. List the indications for renal replacement therapy (Dialysis).
10. List the different methods of thrombo-prophylaxis (prevention of DVT).
