

**B.Sc. CRITICAL CARE TECHNOLOGY**  
(New Syllabus 2014-2015 & 2015-2016)

**THIRD YEAR**

**PAPER II – ICU THERAPY**

*Q.P. Code: 801237*

**Time: Three Hours**

**Maximum: 100 Marks**

**Answer all questions**

**I. Elaborate on:**

**(3 x 10 = 30)**

1. Define respiratory failure. List the causes of Type II respiratory failure and how you would manage a patient with Type II respiratory failure?
2. Outline the general supportive treatment in the management of organophosphorus compound poisoning. What are the steps to be taken when such a patient becomes hypoxic?
3. Describe management of Airway in an unconscious patient who does not have a definitive airway? Add a note on management of airway in patient with suspected cervical spine injury.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Abdominal compartment syndrome.
2. Fluid resuscitation in circulatory shock.
3. Principles of Chest Physiotherapy in ICU patients.
4. Humidifier devices used in ICU.
5. Airway Pressure Release ventilation.
6. Troubleshooting high airway pressure/ pressure limitation alarms on ventilator.
7. Nutritional support in ICU patients.
8. Primary survey in trauma.

**III. Short answers on:**

**(10 x 3 = 30)**

1. List the causes of ventilator dependence.
2. Indications of IABP (Intra-Aortic Balloon Pump).
3. Toxidrome in Organophosphorus poisoning (S.L.U.D.G.E.)
4. List Drugs used in Advanced Cardiac Life Support.
5. List the steps in extubation of a patient.
6. Draw the sequence of Basic Life Support.
7. List the causes for difficulty in weaning a patient on ventilator.
8. List the types of nebulized drug delivery devices.
9. Write the initial settings of non-invasive ventilation for COPD exacerbation.
10. Drugs used in Rapid Sequence Intubation.

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