

[LD 0212]

**AUGUST 2013**  
**B.Sc CRITICAL CARE TECHNOLOGY**  
**SECOND YEAR**  
**Paper I – ICU MONITORING II**  
**Q.P Code : 801221**

Sub.Code :1221

**Time : Three hours**

**Maximum : 100 Marks**

**Answer All Questions**

**I. Elaborate on :**

**(3X10=30)**

1. How would you go about setting up invasive pressure monitoring? Discuss on leveling, calibration, zeroing and measuring pressures.
2. Discuss the merits and de-merits of open endotracheal suctioning when compared with closed suctioning. Describe the procedures of suctioning.
3. What is the difference between sterilization and disinfection? Discuss briefly sterilization using ethylene oxide.

**II. Write Notes on:**

**(8x5=40)**

1. Positive end-expiratory pressure(PEEP).
2. Low flow oxygen delivery devices.
3. What are the components of work of breathing? Describe them in brief.
4. Write a note on the advantages of nebulized delivery of drugs.
5. Draw a 3 bottle chest drainage system.
6. Thermodilution principle for measuring cardiac output.
7. Write a note on inventive spirometry.
8. Pressure trigger.

**III. Short Answers on:**

**(10x3=30)**

1. How would you sample an arterial blood gas?
2. List the sites of placement of a central venous catheter.
3. Write briefly about universal precautions.
4. List the indications for mechanical ventilation.
5. Write the initial non-invasive ventilation setup for COPD exacerbation.
6. Inspiratory time.
7. Draw the 2 bottle chest drainage system
8. List the placement for a 12 – lead ECG.
9. How would you level an invasive pressure device?
10. List the drugs that can be used rapid sequence induction for intubations.

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