

00142

**B.Sc. IN ANAESTHESIA AND CRITICAL CARE  
TECHNOLOGY (BACT)**

**Term-End Examination**

**June, 2015**

**BAHI-074 : ICU MANAGEMENT, CPR AND  
TRAUMA LIFE SUPPORT**

*Time : 3 hours*

*Maximum Marks : 70*

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**SECTION - I**

1. Choose the most appropriate answer. **10x1=10**
- (a) During Spontaneous inspiration the intrapleural pressure is :
- (i) Negative
  - (ii) Positive
  - (iii) Atmospheric pressure
- (b) The most accurate measure of the volume received by the patient on ventilator is :
- (i) Inhaled tidal volume
  - (ii) Exhaled tidal volume
  - (iii) Minute volume
- (c) Barotrauma for a patient on ventilator is caused by :
- (i) High peak inspiratory pressure.
  - (ii) Low peak inspiratory pressure.
  - (iii) High CO<sub>2</sub> content

- (d) After defibrillation the next thing to do immediately :
  - (i) Check pulse
  - (ii) Take ECG
  - (iii) Resume chest compression
- (e) End tidal CO<sub>2</sub> in a patient with cardiac arrest is :
  - (i) low
  - (ii) high
  - (iii) zero
- (f) Chest compressions are given at the :
  - (i) upper border of sternum
  - (ii) middle of sternum
  - (iii) lower border of sternum
- (g) Ischemia to brain causes unconsciousness and finally brain death within :
  - (i) 3 - 4 minutes
  - (ii) 5 - 10 minutes
  - (iii) 10 -15 minutes
- (h) When colloids are used to replace blood the ratio is :
  - (i) 1 : 1
  - (ii) 1 : 2
  - (iii) 3 : 1
- (i) In abdominal trauma free air under diaphragm in the abdominal x - ray shows :
  - (i) Liver injury
  - (ii) Perforation of gut
  - (iii) Perforation of lungs
- (j) In trimodel distribution of trauma management the group which needs immediate and aggressive management is :
  - (i) group I
  - (ii) group II
  - (iii) group III

## SECTION - II

2. Fill in the blanks. 10x1=10

- (a) The expanded form of R.O.S.C \_\_\_\_\_.
- (b) The expanded form of A.R.D.S is \_\_\_\_\_.
- (c) Penta starch is an example of \_\_\_\_\_.
- (d) During chest compression heart is compressed between \_\_\_\_\_ and \_\_\_\_\_.
- (e) When PEEP is applied the BP can \_\_\_\_\_.
- (f) High  $FiO_2$  for a prolonged time can cause  $O_2$  \_\_\_\_\_.
- (g) Artificial Ventilation is needed if glasgow coma scale is less than \_\_\_\_\_.
- (h) In resuscitation the safest and easiest central vein accessed is \_\_\_\_\_.
- (i) Injury at  $C_3 - C_5$  level can cause \_\_\_\_\_ paralysis leading to apnoea.
- (j) Hemothorax is \_\_\_\_\_ in the thoracic cavity.

### SECTION - III

3. Write short notes on **any four** : **4x5=20**
- (a) In line mobilization of Cervical spine
  - (b) Chest trauma
  - (c) Heimlich Maneuver
  - (d) ECG picture in cardiac arrest
  - (e) Indication for I.C.V admission

### SECTION - IV

4. Answer **any three** of the following : **3x10=30**
- (a) What are the indications for mechanical ventilation and mention the modes ?
  - (b) Describe the adult BLS algorithm (AHA 2010).
  - (c) What are the steps of defibrillation with the AED ?
  - (d) Describe tri ageing or tri modal distribution of trauma care.
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