

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

Term-End Examination

June, 2014

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

Time : 3 Hours

Maximum Marks : 70

SECTION - I

1. Choose the most appropriate answer. **1x10=10**
- (a) Physiological PEEP is :
 - (i) 5 cm of H₂O
 - (ii) 5 mm of Hg
 - (iii) 10 cm of H₂O
 - (b) Chest compressions during CPR should be at :
 - (i) Lower Sternum
 - (ii) Upper Sternum
 - (iii) Mid Sternum
 - (c) While using a defibrillator, output of energy is indicated in :
 - (i) Joules
 - (ii) Kilopascals
 - (iii) psi
 - (d) Shockable rhythm during cardiac arrest :
 - (i) Ventriculartachycardia
 - (ii) Asystole
 - (iii) Pulseless electrical activity

- (e) Endotracheal intubation is indicated if Glasgow Coma Score is less than :
(i) 8 (ii) 9 (iii) 10
- (f) Which of the following is a complication of mechanical ventilation :
(i) Barotrauma
(ii) Cardiac failure
(iii) Convulsions
- (g) If a patient remains in cardiac arrest chances of survival drop every minute by :
(i) 5 % (ii) 10 % (iii) 15 %
- (h) In a patient who has had a cardiac arrest, the maximum time that can be taken by a rescue to detect pulse is :
(i) 20 sec
(ii) 15 sec
(iii) 10 sec
- (i) During CPR, ratio of compression to ventilation when two rescues are present is :
(i) 30 : 2
(ii) 15 : 2
(iii) 30 : 1
- (j) A change of person giving chest compression during CPR should not take more than :
(i) 5 sec
(ii) 10 sec
(iii) 20 sec

SECTION - II

2. Fill in the blanks : 1x10=10
- (a) Compression depth during adult CPR is at least _____ inches.
- (b) Normal I : E ratio set on ventilator is _____.

- (c) Glasgow Coma Scale of less than _____ is an indication of ventilation.
- (d) The ratio of compression ventilation during CPR is _____ when there is a single rescuer.
- (e) Pressure support is provided during the _____ phase of respiration.
- (f) In adult BLS algorithm, pulse checking can take a maximum time of _____.
- (g) During CPR rhythm is checked at an interval of _____ minutes.
- (h) In CPR, the chest compression rate should be _____.
- (i) The most common initial rhythm in sudden cardiac arrest in an adult is _____.
- (j) Categorizing patients on the basis of severity of injury is _____.

SECTION - III

Answer **any six** of the following each carries **five** marks.

5x6=30

- 3. Pressure Controlled Ventilation
- 4. Automated External Defibrillator
- 5. PEEP
- 6. ECG changes in cardiac arrest
- 7. Heimlich's manoeuvre
- 8. Procedure of tracheal suctioning in an intubated patient
- 9. Ways to increase speed of intravenous fluid delivery.

SECTION - IV

Answer **any two** questions. Each carries
10 marks. 10x2=20

10. What are the ventilatory settings to be set on a ventilator for controlled mechanical ventilation ?
 11. Describe how you will care for a ventilated patient ?
 12. Describe the different phases of trauma care.
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