

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

Term-End Examination

December, 2012

BAHI-071 : ESSENTIAL OF CLINICAL MEDICINE

Time : 3 Hours

Maximum Marks : 70

SECTION-A

Answer *any three* of the following questions. Each carries 10 marks :

10x3=30

1. What are the various types of Muscle Relaxants ? Mention the uses, side effects and contraindications of succinylcholine.
2. What are the characteristics of an ideal intravenous induction agent ? Mention the indications and contraindications of Thiopentone Sodium.
3. Describe the composition and functions of blood.
4. Enlist the muscles of respiration. Briefly describe the mechanism of respiration.
5. Which are the different preparations of local anaesthetics ? Write a note about local anaesthetic toxicity.

SECTION-B

6. Write short notes on *any five* of the following : $4 \times 5 = 20$
- (a) Endospores
 - (b) Ethylene Oxide Sterilisation
 - (c) Routes of Drug Administration
 - (d) Atracurium
 - (e) Universal Precautions
 - (f) Adrenaline
 - (g) Functions of Larynx
 - (h) Importance of Humidification of inspired air.

SECTION-C

7. Fill in the blanks :

1x10=10

- (a) The colour code of Sevoflurane is _____
- (b) The mixture of 50% O₂ and 50% N₂O is called _____
- (c) The total time duration of cardiac cycle is _____
- (d) _____ blood group is called universal recipient.
- (e) The most cardiostable intravenous anaesthetic agent is _____
- (f) The leaf like cartilaginous structure which prevents food from entering into the lungs is _____.
- (g) _____ is added to local anaesthetics to prolong their duration of action.
- (h) _____ is the drug used to treat benzodiazepine overdose.
- (i) The nondepolarising muscle relaxant of choice in liver disease is _____
- (j) 0.5% Bupivacaine contains _____ mg .of Bupivacaine per mL.

SECTION-D

8. State whether the following statements are *true* or *false* : **1x10=10**

- (a) Inspiration is a passive process.
 - (b) Sevoflurane is the popular induction agent in paediatric patients.
 - (c) Tidal volume in a 50 kg. adult is 1 litre.
 - (d) Noradrenaline is the vasopressor of choice in septic shock.
 - (e) The process capable of destroying most micro organisms, but not bacterial spores is called sterilization.
 - (f) Ketamine is the ideal sedation agent of choice in ventilated patients in the ICU.
 - (g) Gas exchange takes place in the respiratory bronchioles.
 - (h) Atropine is used to avoid the side effects of anticholinesterase
 - (i) Diffusion hypoxia is a common problem following Nitrous Oxide Anaesthesia.
 - (j) Autoclaving is a process where dry heat is used to kill micro - organisms.
-