

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

Term-End Examination

December, 2013

BAHI-071 : ESSENTIAL OF CLINICAL MEDICINE

Time : 3 Hours

Maximum Marks : 70

SECTION-A

Answer *any three* of the following. **10x3=30**

1. Describe the various components of blood what are the functions of blood ?
2. Draw the cross section of heart and label it. Briefly describe the circulation of blood.
3. What are the muscles of respiration ? Briefly explain the mechanism of respiration.
4. Describe the different methods of sterilization.
5. Describe the different routes of drug administration.

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SECTION-B

6. Write short notes on *any five*. 4x5=20
- (a) Nitrous oxide
 - (b) Barrier nursing
 - (c) Anticholinergic drugs
 - (d) Colloids
 - (e) Muscle relaxants
 - (f) Ketamine
 - (g) Bronchodilators

SECTION-C

7. Fill in the blanks : 1x10=10
- (a) _____ is the drug of choice in anaphylaxis.
 - (b) When crystalloids are used to replace the blood loss the amount given is _____ times the blood loss.
 - (c) Glutaraldehyde once prepared can be used only for _____ days.
 - (d) During infection the requirement of insulin in a diabetic patient _____ .
 - (e) Under spinal anaesthesia ephedrine is used to treat _____
 - (f) _____ is used for gas sterilization.
 - (g) Route by which a test dose of antibiotic is given is _____
 - (h) Blood supply to the heart muscles is from two _____ arteries.

- (i) _____ is an induction agent which can be given both I/v and I/m.
- (j) Salbutamol is a _____ drug with less cardiac side effects.

SECTION-D

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

- (a) Universal precautions are to be used only in HIV/AIDS.
 - (b) Thiopentone is contraindicated in Neurosurgery.
 - (c) Heparin is used to prevent clotting of blood.
 - (d) Intra operative blood loss should be replaced by blood if blood loss is 5% of the blood volume.
 - (e) UV radiation is used for cold sterilization.
 - (f) Succinylcholine decreases the intra-ocular pressure.
 - (g) The average life span of R.B.C. is 10 days.
 - (h) Minute volume is tidal volume \times respiratory rate.
 - (i) Pulmonary artery carries oxygenated blood.
 - (j) Desflurane is pungent and irritant to the airway.
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