

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

Term-End Examination

December, 2012

BAHI-072 : ANAESTHESIA EQUIPMENT

Time : 3 Hours

Maximum Marks : 70

PART - A

1. Fill in the blanks. 1x10=10
- (a) Oxygen manifold has a bank of _____ type of cylinders.
 - (b) The pressure of gas in full oxygen cylinder is _____ psi.
 - (c) E.M.O. vaporizer is used for _____ .
 - (d) Soda-lime can absorb _____ litre of CO₂ per 100 gms of absorbent.
 - (e) The colour code for halothane vaporizer is _____.
 - (f) In Bains circuit expired gas flows through _____ tube.
 - (g) In nasal intubation _____ forceps is used to direct the tube into the trachea.
 - (h) Pulse oximeter measures pulse rate and _____ .
 - (i) The circuit which uses the minimum gas flow is _____ circuit.
 - (j) The only reliable way to find out the remaining nitrous oxide in the cylinder is to _____ the cylinder.

2. State whether the statements given below are *true* or *false* : **1x10=10**

- (a) Oxygen flush provides high flow of oxygen directly to the common gas outlet.
- (b) Capnography is measuring the amount of CO₂ in the inspired gas.
- (c) Filling system helps to prevent filling the vaporizer with wrong agent.
- (d) Scavenging system reduces operation theatre air pollution.
- (e) Seroflurane is an irritable gas.
- (f) Kovotkoff bounds are associated with sphygomanometry.
- (g) Rendall Baker mask has a low dead space.
- (h) Double lumen tube is used for difficult intubation.
- (i) Flexometallic tube is not kinkable.
- (j) Low pressure cuff in endotracheal tube is good.

PART - B

Answer *any three* questions.

10x3=30

3. Draw the diagram of closed circuit and carbon dioxide absorber. What are its advantages and disadvantages ?
4. How will you check the anaesthesia machine before use ?
5. What are the types of laryngoscope ? Explain the various parts with the help of diagram.
6. Draw the labelled diagram of a cuffed endotracheal tube. Explain in brief the various parts.
7. With the help of a diagram explain the various parts of the oxygen cylinder.

PART - C

8. Write short notes on *any five* :

4x5=20

- (a) Manifold
 - (b) Face mask
 - (c) Flow meter
 - (d) Scavenging system
 - (e) L.M.A.
 - (f) Nasopharygeal airway
 - (g) Ambu Bag
 - (h) Suction in the O.T.
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