

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

Term-End Examination

June, 2011

BAHI-072 : ANAESTHESIA EQUIPMENT

Time : 3 hours

Maximum Marks : 70

PART - A

1. (a) *Fill in the blanks :*
- (i) The amount of gas in a nitrous oxide cylinder is known by its _____. 1
 - (ii) _____ tube is used to isolate the lung during thoracic surgery. 1
 - (iii) The full form of APL valve is _____. 1
 - (iv) Nitrous oxide is stored in the cylinder as _____. 1
 - (v) The oropharyngeal airway used during fiber - optic intubation is called _____. 1
 - (vi) 100 gms of soda lime can absorb approximately _____ litres of carbon dioxide. 1
 - (vii) E.M.O. vaporizer is used for _____. 1

- (viii) The circuit which can be used with minimum gas flow is _____ system. 1
- (ix) The flow rate at emergency oxygen flush _____. 1
- (x) In Bains circuit fresh gas flow is through the _____ tube. 1
- (b) State whether the statements given below are *true* or *false* :
- (i) Magill circuit has valve at the patent end 1
- (ii) Filling system helps to prevent filling the vaporizer with a wrong agent. 1
- (iii) Scavenging system increases the efficiency of the circuit. 1
- (iv) Hexo metallic tube is not kinkable 1
- (v) Use of an oxford tube reduces the risk of bronchial intubation 1
- (vi) Capnograph will show high reading in hyperventilation. 1
- (vii) Rendall Baker mask has a low dead space. 1
- (viii) Kovotkott sounds are associated with sphygo manometry. 1
- (ix) Interlock system between two vaporizers is to use the two vaporizers at the same time. 1
- (x) Capnography can be used as a sure test for endotracheal tube placement. 1

PART - B

Answer *any three* questions.

10x3=30

2. Draw a labelled diagram of a Cuffed Endotracheal tube. What are the markings on the endotracheal tube ?
3. What are the airway management equipment you will keep ready for a difficult intubation ?
4. Compare the features of the cylinders of Oxygen, Nitrous oxide and Carbon dioxide.
5. Write in detail about Carbon dioxide absorbents. What are the advantages and disadvantages of the circle system ?
6. How will you check the Anaesthesia machine before use ?

PART - C

Write short notes on *any five* :

4x5=20

7. Precautions during storage and transport of medical gas cylinders
 8. Pre - formed tubes
 9. Ambu Bag
 10. Tracheostomy tube
 11. Advantages and disadvantages of Naso - pharyngeal airway
 12. Devices to prevent Hypoxia in Anaesthesia machines
 13. Tests for Bains Circuit
 14. Checking and positioning of an Endotracheal tube.
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