

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

01468

Term-End Examination

December, 2010

BAHI-072 : ANAESTHESIA EQUIPMENT

Time : 3 hours

Maximum Marks : 70

PART - A

1. (a) Fill in the blanks : 1x10=10
- (i) The pressure of gas in full oxygen cylinder is _____ p.s.i.
 - (ii) Endotracheal tube used for maxillo facial surgery is _____ tube.
 - (iii) The APL valve stands for _____.
 - (iv) Cylinder used in anaesthesia machine is _____ type.
 - (v) The oropharyngeal airway used during fiberoptic intubation is called _____.
 - (vi) Soda lime contains 94% _____.
 - (vii) Gold man vaporizer is a small and simple apparatus mainly used for _____.
 - (viii) _____ forceps is used to direct tube into the trachea during nasotracheal intubation.

- (ix) Mapleson E is called _____.
- (x) The side hole near the tip of the endotracheal tube is called _____.

(b) State whether the statements are true or false : 1x10=10

- (i) Interlock system between two vaporizers is not to use two vaporizers at the same time.
- (ii) The mark at which an endotracheal tube is fixed at the teeth level in an adult is 30 cm.
- (iii) Magill circuit has valve at the machine end.
- (iv) Peripheral nerve stimulator can be used for administering brachial plexus block.
- (v) Flexometallic tube is kinkable.
- (vi) Combi tube is used in difficult airway situation and in emergency.
- (vii) An air filled cuff may ignite if it is bit by a laser beam.
- (viii) Capnograph will show low reading in hypoventilation.
- (ix) Korotkoff sounds are associated with sphygmomanometry.
- (x) The circuit with least resistance to breathing is closed system.

PART - B

Answer *any three* questions.

Each question carries 10 marks.

10x3=30

2. Draw a labelled diagram of the Laryngeal Mask airway. Mention the advantages and disadvantages of the LMA over the Endotracheal tube.
3. Name and describe the parts of the Medical Gas Cylinder.
4. Draw and label the diagram of a Laryngoscope. Describe its parts and uses. What are the complications of Laryngoscopy ?
5. Mention the components of the circle system write a note on Soda - lime.
6. List the various types of Endotracheal tubes and write in detail about any one of them.

PART - C

7. Write short notes on *any five* of the following : $4 \times 5 = 20$
- (a) Pin Index system.
 - (b) Flow meter.
 - (c) Scavenging system.
 - (d) Bourdon pressure Gauge.
 - (e) Tracheostomy tube.
 - (f) Advantages and disadvantages of oropharyngeal airway.
 - (g) Ambu Bag Resuscitator.
 - (h) Jackson Ree's circuit.
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