

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

**Term-End Examination**

**June, 2015**

**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 nitrous oxide cylinder is \_\_\_\_\_ psi.
  - (ii) 100 grams of sodalime can absorb approximately \_\_\_\_\_ litres of CO<sub>2</sub>.
  - (iii) The notation \_\_\_\_\_ indicates that the endotracheal tube has passed the tissue toxicity test.
  - (iv) \_\_\_\_\_ is an example for draw over vapourizer.
  - (v) Washer which is used in yoke assembly is called \_\_\_\_\_.
  - (vi) LMA of size 2 has a cuff inflation volume of \_\_\_\_\_ ml.
  - (vii) Pin index of entonox is \_\_\_\_\_.
  - (viii) The quick fill system is only used for \_\_\_\_\_.
  - (ix) The major component of Barium hydroxide lime is \_\_\_\_\_.
  - (x) AMBCI stands for \_\_\_\_\_.

- (b) State whether the statements are true or false : 1x10=10
- (i) Magill's circuit is good for controlled ventilation.
  - (ii) Cylinder size 'G' is used as bulk cylinder for pipeline supply.
  - (iii) MRI compatible cylinder is made up of molybdenum steel.
  - (iv) Goldman vapourizer is a flow over type vapourizer with wicks.
  - (v) APL valve is also called as Heidbrink valve.
  - (vi) One of the advantage of circle system is depth of anaesthesia can be changed rapidly.
  - (vii) Use of an Oxford tube reduces the risk of bronchial intubation.
  - (viii) The one advantage of LMA is it prevents aspiration.
  - (ix) The non return pressure relief device is situated between the vapourizer and common gas outlet.
  - (x) Universal leak test is done for checking the high pressure system.

### PART - B

Answer any three questions. Each carries 10 marks. 3x10=30

2. Write short notes on :
- (a) Components of circle system with the help of diagram.
  - (b) Sodalime.

3. Write in brief about Boyle's anaesthesia machine.
4. Draw a well labelled diagram of laryngoscope. What are the complications of laryngoscopy ?
5. Define and classify vapourizers.
6. Classify breathing systems with diagrams and describe Bain's circuit.

### PART - C

7. Write short notes on **any five** of the following : **5x4=20**
    - (a) Pin index safety system
    - (b) Combi tube
    - (c) Hypoxia prevention safety devices
    - (d) Guedell's airway
    - (e) Essential features of an ideal breathing system
    - (f) LMA classic
    - (g) RBS mask
    - (h) What are the precautions to be taken while doing storage and transport of medical gas cylinder ?
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