

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

**Term-End Examination  
December, 2015**

**BAHI-072 : ANAESTHESIA EQUIPMENT**

*Time : 3 hours*

*Maximum Marks : 70*

- Note :** (i) *Attempt all questions from Part - A.*  
(ii) *Attempt any three questions from Part - B.*  
(iii) *Part - C consist of one question which is compulsory it carries 20 marks.*

**PART - A**

1. Fill in the blanks : 1x10=10
- (a) The pressure of gas in full oxygen cylinder is \_\_\_\_\_ psi.
  - (b) The mask which is used for ventilating paediatric patient is called \_\_\_\_\_ .
  - (c) The flow rate at emergency oxygen flush is \_\_\_\_\_ .
  - (d) Full form of AMBU is \_\_\_\_\_ .
  - (e) Entonox is a mixture of \_\_\_\_\_ .
  - (f) The modification of Ayre's T piece is called \_\_\_\_\_ .
  - (g)  $N_2O$  is stored in the cylinder as \_\_\_\_\_ .
  - (h) The size of the sodalime granules used in anaesthesia is in the range of \_\_\_\_\_ mesh.

- (i) The tube which is used during surgery on the larynx is \_\_\_\_\_ .
- (j) Pethik test is used for checking \_\_\_\_\_ .

2. State whether the statements are **true** or **false** :

**1x10=10**

- (a) Magill's circuit has a valve at the patient end.
- (b) Combitube is suitable for difficult intubation.
- (c) 100 gm of sodalime can absorb 36 litres of CO<sub>2</sub>.
- (d) The mask at which an endotracheal tube is fixed at the teeth level in an adult is 30 cm.
- (e) Guedel's airway is a nasal airway.
- (f) Laryngeal mask airway ensures the safety against aspiration.
- (g) Increased pollution of the OT atmosphere is one of the disadvantage of the circle system.
- (h) An ideal breathing system should not have more dead space.
- (i) E type cylinders are used in Anaesthesia machine.
- (j) In Bourden pressure guage, if the indicator is circular, the lowest pressure indicator must be between 9 O'clock and 12 O'clock position on a clock face.

## PART - B

Answer **any three** questions. Each question carries **10** marks.

3. Safety features of anaesthesia machine. 10
4. Draw a labelled diagram of LMA (Laryngeal Mask Airway) Mention the advantages and disadvantages of LMA over endotracheal tube. 5+5=10
5. Write in detail about CO<sub>2</sub> absorbents. What are the advantages and disadvantages of the circle system ? 5+5=10
6. Classify Vapourisers. Explain concentration calibrated vapouriser. 10
7. How will you check the anaesthesia machine before use ? 10

## PART - C

8. Write short notes on **any five** of the following : 5x4=20
  - (a) Yoke assembly
  - (b) AMBU
  - (c) EMO vapouriser.
  - (d) Magill's circuit.
  - (e) Hypoxia prevention safety devices in Anaesthesia machine.
  - (f) Essential features of an ideal breathing system.
  - (g) Nasopharyngeal airway.
  - (h) Double lumen tube.