

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

**Term-End Examination**

**June, 2014**

**BAHI-072 : ANAESTHESIA EQUIPMENT**

*Time : 3 Hours*

*Maximum Marks : 70*

**PART - A**

1. (a) Fill in the blanks. 1x10=10
- (i) The cylinder used on Boyle's apparatus is of the type \_\_\_\_\_.
  - (ii) Pin Index of Entonox is \_\_\_\_\_.
  - (iii) \_\_\_\_\_ circuit can be used with minimum gas flow.
  - (iv) Full form of APL is \_\_\_\_\_.
  - (v) Straight blade laryngoscope is called \_\_\_\_\_.
  - (vi) \_\_\_\_\_ measures pressure of cylinders on Anaesthesia Machine.
  - (vii) O<sub>2</sub> flush is a part of the \_\_\_\_\_ system on the Boyle's apparatus.
  - (viii) Ideal circuit for spontaneous ventilation is \_\_\_\_\_.
  - (ix) \_\_\_\_\_ is an indicator used in Soda Lime.
  - (x) Formula used to select endotracheal tube for paediatric patients is \_\_\_\_\_.

- (b) State whether the statements are true or false. 1x10=10
- (i) Endotracheal tube is fixed at the level of the teeth at a mark of 15 cm in an adult male.
  - (ii) Flexometallic tubes are useful in maxillofacial surgery.
  - (iii) If there is a leak from the cylinder while fitting it to the Boyle's apparatus, two Bodok's seals can be used.
  - (iv) Combitube is inserted under vision.
  - (v) Second stage pressure reducing device reduces the pressure of N<sub>2</sub>O to 14 psi.
  - (vi) Size of the adult reservoir bag is 2 litres.
  - (vii) Pethik's test is used to check the circle system.
  - (viii) Water is an end product of the reaction in Soda Lime.
  - (ix) Flexible endoscopes are sterilised by autoclaving.
  - (x) 15 litres/min flow in a self inflating bag will provide 100% O<sub>2</sub> supply.

### PART - B

Answer any three questions. Each question carries 10 marks. 10x3=30

2. How are breathing systems classified ? Write in detail about any one with diagrams.
3. Describe endotracheal tube with diagram. Classify the endotracheal tubes.
4. Describe a laryngoscope with diagram. Mention the complications of laryngoscopy.

5. Enlist the markings on the cylinder. Write the various hazards during use. What are the precautions taken during the storage of cylinder ?
6. What are the parts of high pressure system of Boyle's apparatus ? Describe any one part in detail.

### PART - C

7. Write short notes on **any five** of the following : **4x5=20**
    - (a) Hazards of vaporizers
    - (b) Nasopharyngeal airways
    - (c) Magill's forceps
    - (d) DISS
    - (e) Ambu Bag Resuscitator
    - (f) Microlaryngeal surgery tube
    - (g) Predictors of difficult mask ventilation
    - (h) Safety features of Boyle's apparatus
-