

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

Term-End Examination

June, 2016

00236

BAHI-072 : ANAESTHESIA EQUIPMENT

Time : 3 hours

Maximum Marks : 70

*Note : Attempt **all** questions from Part A. Attempt any **three** questions from Part B. Part C consists of one question which is **compulsory**. It carries 20 marks.*

PART A

1. Fill in the blanks. 10×1=10
- (i) Colour coding of Isoflurane is _____ .
 - (ii) Pin index of N₂O is _____ .
 - (iii) Expansion of APL valve is _____ .
 - (iv) The type of cylinder used in anaesthesia machine is _____ .
 - (v) The full form of RAE tube is _____ .
 - (vi) The temperature at which saturated vapour pressure is equal to the atmospheric pressure is called _____ .
 - (vii) The straight blade laryngoscope is called _____ .

- (viii) The name of the washer used in yoke assembly is _____ .
- (ix) The size of the reservoir bag in paediatric circuit is _____ litres.
- (x) Soda lime contains 94% _____ .

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

10×1=10

- (i) The second stage pressure reducing device reduces the pressure of O₂ to 60 psi.
- (ii) Fish-mouth valve of a manual resuscitator ensures the unidirectional flow of gas.
- (iii) Peaking means soda lime appears to be reactivated with rest.
- (iv) Magill's circuit is ideal for controlled ventilation.
- (v) Flexometallic tube is not kinkable.
- (vi) Universal leak test is used to check the Bain's circuit.
- (vii) Tec 5 vapouriser is designed for desflurane.
- (viii) Combitube is used during lung surgery for one lung ventilation.
- (ix) Cobb's connector is having a removable plug to allow suction.
- (x) Pin index of entonox is 1 : 4.

PART B

Answer any **three** questions. Each question carries 10 marks. $3 \times 10 = 30$

3. Classify Mapleson's breathing systems and describe Bain's circuit. 10
4. Draw and explain the components of the manual resuscitator (AMBU). 10
5. Draw and explain Guedel's airway. Write in brief about the insertion technique. $6+4=10$
6. Draw a well-labelled diagram of cuffed endotracheal tube. What are the indications of endotracheal intubation and how will you check the position of endotracheal tube after intubation? $5+3+2=10$
7. Draw and label the diagram of a laryngoscope. Describe its parts and uses. What are the complications of laryngoscopy? $4+3+3=10$

PART C

Write short notes on any **five** of the following : $5 \times 4 = 20$

8. (a) Bourdon Pressure Gauge
 - (b) Scavenging System
 - (c) Goldman Vapouriser
 - (d) Universal Leak Test and Pethik Test
 - (e) Soda Lime
 - (f) Magill's Forceps
 - (g) RAE Tubes
 - (h) RBS Mask
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