

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

**Term-End Examination
December, 2014**

BAHI-072 : ANAESTHESIA EQUIPMENT

Time : 3 Hours

Maximum Marks : 70

PART - A

1. (a) Fill in the blanks : 10x1=10
- (i) The Tec 6 vapourizer is designed for use with _____.
 - (ii) The size of the sodalime granules are _____.
 - (iii) The cylinder used in anaesthesia machine is _____ type.
 - (iv) Pin index of N₂O is _____.
 - (v) The temperature at which its saturated vapour pressure is equal to atmosphere is called _____.
 - (vi) Example for the vapourizer without wick is _____.
 - (vii) The pressure of O₂ in pipeline is _____.
 - (viii) The tube which is used in fasciomaxillary surgery is _____.
 - (ix) Magill's circuit is good for _____.
 - (x) The washer which is used in the yoke assembly is called _____.

- (b) State whether the statements are **true** or **false** : **10x1=10**
- (i) Fish mouth valve of manual resuscitator ensures the unidirectional flow of gas.
 - (ii) Kieselguhr is added to sodalime for decreasing the hardness.
 - (iii) LMA of size 3 has a cuff inflation volume of 20 ml.
 - (iv) Tec 7 vapourizer is used for isoflurane.
 - (v) The color of CO₂ cylinder is grey.
 - (vi) The second stage pressure reducing device reduces the pressure of O₂ to 60 psig.
 - (vii) RAE tubes are used only for paediatric patients.
 - (viii) EMO vapourizer is flow over when used as inhaler.
 - (ix) The notation on endotracheal tube F29 indicates that the tube has passed tissue toxicity test.
 - (x) Rowbotham connector is having a removable plug to allow suction.

PART - B

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

- 2. Write in brief about manual resuscitator with the help of diagram. **10**
- 3. Explain safety features of anaesthesia machine. **10**
- 4. Classify breathing systems with diagrams. Describe Jackson Ree's circuit. **5+5=10**

5. Draw a well labelled diagram of cuffed endotracheal tube. Write in short about : $4+2+2+2=10$
- (a) Types of endotracheal tubes.
 - (b) Markings on the endotracheal tube.
 - (c) How will you check the position of endotracheal tube after intubation ?
6. Write the classification of vapourizers. Explain concentration calibrated vapourizer. $5+5=10$

PART - C

7. Write short notes on **any five** of the following :
- (a) Bourdon's pressure guage. $5 \times 4 = 20$
 - (b) Goldman vapourizer.
 - (c) Keyed filling system.
 - (d) Scavenging system.
 - (e) Sodalime.
 - (f) Universal leak test.
 - (g) RAE tubes.
 - (h) What are the precautions to be taken during storage and transport of medical gas cylinder ?
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