Time: 3 Hours

Maximum Marks: 70

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

## Term-End Examination December, 2013

**BAHI-072: ANAESTHESIA EQUIPMENT** 

		T 4 70 TF 4
		PART - A
(a)	Fill ir	the blanks. $1 \times 10 = 10$
	(i)	Jackson Rees circuit is a modification of breathing system.
	(ii)	One of the uses of Magill's forceps is.
	(iii)	Pressure in a half filled cylinder of N <sub>2</sub> O is
	(iv)	Full form of DISS is
	(v)	Pin Index of CO <sub>2</sub> is
	(vi)	The flow rate of O <sub>2</sub> flush is
	(vii)	Equal mixture of $N_2O$ and $O_2$ is called
	(viii)	Endotracheal tube used for maxillofacial surgery is called
	(ix)	tube is used for one lung ventilation.
	(x)	Mask used for paediatric patients is called mask.
	(a)	(i) (ii) (iii) (iv) (v) (vi) (vii) (viii)

(b) State whether the statement are true or false:

1x10=10

- (i) Cracking of cylinder means opening the value a little to allow a small amount of gas to escape before fitting the cylinder to the yoke.
- (ii) Goldman vaporiser is used for isoflurane
- (iii) The circle system is very useful in laparoscopic surgery.
- (iv) Pressure in full O<sub>2</sub> cylinder is 1800 psi
- (v) High volume low pressure cuff causes more injury to tracheal mucosa.
- (vi) CO<sub>2</sub> detector is used to confirm correct placement of endotracheal tube.
- (vii) Colour of CO<sub>2</sub> cylinder is orange
- (viii) Soda lime is not re activated at rest.
- (ix) Check value assembly prevents the transfer of gas from one cylinder to another cylinder (with a lower pressure) in a double yoke.
- (x) Pipeline pressure of  $O_2$  is 90 psi

## PART - B

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

- 2. Draw a diagram and describe the flowmeter. 10 What are the safety features of a flowmeter?
- 3. How will you check the Boyle's apparatus before 10 use?
- 4. Describe the circle system. What are the advantages and disadvantages of this system?

- 5. Describe a classic LMA with diagram. What are the advantages and disadvantages of LMA over endotracheal tube?
- 6. Describe a face mask with a diagram. Enumerate types of face masks and describe any one of them

## PART - C

- 7. Write short notes on any five of the following: 4x5=20
  - (a) Pin Index safety system
  - (b) Anaesthesia workstation
  - (c) Jackson Rees circuit
  - (d) Classification of vaporizers
  - (e) Keyed filling systems
  - (f) Pre formed tubes
  - (g) O<sub>2</sub> storage system
  - (h) Care of rigid laryngoscopes.