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B.Sc. IN ANAESTHESIA AND CRITICAL CARE TECHNOLOGY (BACT) 00022

Term-End Examination December, 2011

BAHI-072 : ANAESTHESIA EQUIPMENT

Time : 3 hours

Maximum Marks : 70

PART - A

Fill in the blanks : 1. (a)

1x10=10

- The flow in O₂ flush valve is (i) L/min.
- Full form of RAE tubes is (ii)
- (iii) Pressure in a full O₂ cylinder is psi.
- The capacity of paediatric circuit (iv) reservoir bag is _____ litre.
- minimizes the formation (v) of dust in Soda Lime.
- _____ tube is used for surgery (vi) on the larynx.
- is the instrument used to (vii) direct the endotracheal tube into the larynx.
- (viii) is an indicator in Soda Lime which changes colour from white to pink when exhausted.
- The oropharyngeal airway used for (ix) fibreoptic intubation is called
- Cylinder attached directly to (x) Anaesthesia Machine is ____ type.

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- (b) State whether the statements are *true* or *false* : 1x10=10
 - Two Bodok's seals can be used while fitting the cylinder to the Boyle's apparatus.
 - (ii) The cylinder on Boyle's apparatus is supported by retaining screw, nipple and pin index.
 - (iii) Cracking the cylinder means closing the valve tightly before transporting.
 - (iv) The second stage reducing device reduces the pressure of N_2O to 26 psi.
 - (v) The APL valve in Magill's circuit is situated near the machine end.
 - (vi) 100 gm. of Soda Lime can absorb 26 litres of CO₂.
 - (vii) Rendell Baker Saucek mask is used for paediatric patients.
 - (viii) If the flow meter of Anaesthesia Machine is damaged, it is sufficient to replace only the part which is damaged.
 - (ix) Decreased pollution of the OT atmosphere is one of the advantages of the circle system.
 - (x) Guedel's airway is a nasal airway.

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PART - B

Answer any three questions.

Each question carries 10 marks.

- Classify breathing systems with diagrams and 10 describe any one.
- 3. Compare and contrast O_2 and N_2O cylinders. 10
- Enlist the points to check the Boyle's apparatus 10 before use. Explain the importance of FIO₂ monitor.
- Draw a labelled diagram of a cuffed endotracheal tube. Name five different types of endotracheal tubes. How will you check and prepare an endotracheal tube for intervention ? 3+3+4
- Describe a face mask with diagram. What are the advantages and disadvantages of a face mask ? Enumerate the types of face masks. 4+4+2

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PART - C

7. Write short notes on *any five* of the following : 4x5=20

- (a) Pin Index Safety System
- (b) Bourdon Pressure Gauge
- (c) Keyed filling system
- (d) Endotracheal tube cuffs
- (e) DISS
- (f) Anaesthesia Work Station
- (g) Reservoir bag
- (h) Spiral Embedded Tubes

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