

**Time: Three Hours**

**Max. Marks: 100**

### **INTRODUCTION TO ANAESTHESIA TECHNOLOGY (RS-2)**

#### **Q.P. CODE: 1237**

Your answers should be specific to the questions asked

Draw neat labeled diagrams wherever necessary

#### **LONG ESSAYS (Answer any Two)**

**2 x 10 = 20 Marks**

1. Describe safety features (Anti-hypoxia) which are provided in an anaesthesia machine?
2. Describe indications for tracheostomy tube placement. Describe the care of tracheostomy tube. Describe complications associated with long term use of tracheostomy
3. Describe normal capnography waveform. Describe 5 EtCO<sub>2</sub> (end -tidal carbon dioxide) waveforms with diagram

#### **SHORT ESSAYS (Answer any Twelve)**

**12 x 5 = 60 Marks**

4. O<sub>2</sub> (oxygen) flush
5. History of inhalational anaesthesia
6. Mapleson D circuit (Bains)
7. Yoke hanger assembly
8. Nasopharyngeal airways
9. Intraoperative monitoring during anaesthesia
10. Goals of O<sub>2</sub> therapy
11. Diameter Index Safety System (DISS)
12. Facemask – types and uses, advantages and disadvantages
13. AMBU bag
14. Colour coding for cylinders
15. Double lumen tube
16. Oxygen failure protection device in anaesthesia machine
17. Vaporizer

#### **SHORT ANSWERS (Answer any Ten)**

**10 x 2 = 20 Marks**

18. Parts of ET tube
19. Nasal prongs
20. Venturi mask
21. Cylinder pressure gauge (Bourdon pressure gauge)
22. N<sub>2</sub>O cylinder contents
23. Chemical sterilisation technique
24. Types of hypoxias
25. Jackson Rees circuit
26. Airway maintenance after anaesthesia
27. Laryngoscope
28. Boyles law
29. Pressure relief valve in anaesthesia machine

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