

VINAYAKA MISSION'S RESEARCH FOUNDATION, SALEM
(Deemed to be University)

B.Sc(ANAESTHESIA TECHNOLOGY) DEGREE EXAMINATIONS - September 2021

Second Year

INTRODUCTION TO ANAESTHESIA TECHNOLOGY

Three Hours

Maximum: 75 marks

SECTION - A

I. Choose the Best Answer :

(10 x 1 = 10)

1. At low laminar flows how are flowmeters calibrated?
A. It will depend on the type of flowmeter B. viscosity
C. Density D. Relative humidity
2. When can the hypoxic guard system allow a hypoxic mix?
A. Wrong supply gas in oxygen pipeline or cylinder
B. Defective pneumatic or mechanical components
C. Leaks exist downstream of flow control valve
D. A third inert gas is used
E. All of the above
3. What is the method of vaporization? choose all that apply
A. Thermocompensation B. Flow over C. Injection
D. Heat supplied E. Bubble through
4. Which of the following are housed within the circle system
A. Y-Piece and reservoir bag B. CO₂ absorber
C. Inspiratory and expiratory ports D. APL valve E. All of the above
5. What is the approximate water content of Soda Lime?
A. 10-12% B. 12-14%
C. 14-19% D. 23-37%
6. Which agency writes standards for the prevention of fires?
A. DOT B. FDA C. NIOSH
D. NFPA E. OSHA
7. What is the danger with Adiabatic compression?
A. Icing of cylinder B. Rapid vaporization
C. Fire hazard with recompression D. Fire hazard with decompression
8. What is the PISS of N₂O?
A. 1,5 B. 2,5 C. 3,5 D. 4,5
9. What color is an helium cylinder in the U.S.?
A. Green B. Blue C. Yellow D. Gray E. Brown
10. Vaporization depends on what?
A. Vapor pressure of the agent B. Temperature of the environment
C. Amount of carrier gas used D. All of the above

(p.t.o.)

II. Write Short Answers on any FIVE of the following:

(5 x 5 = 25)

11. Pressure Regulators
12. Hazards of O₂ Therapy
13. Uses of AMBU Bags
14. I.V Anaesthesia
15. Manoeuvres To open up Patient Airway
16. Methods of disinfection and Sterilization of Anaesthesia Equipments
17. Methods of Insertion of Oral Airways

III. Write Short Essays on any TWO of the following:

(2 x 10 = 20)

18. Describe high pressure system in detail. Add note on following.
 - A) Pin Index
 - B) Cylinder Valve
 - C) Hanger Yoke
 - D) Yoke Plug
19. Write a note on following
 - A) Flow control valves
 - B) Gas power outlet
 - C) O₂ Flush
 - D) Pipeline inlet connections.
 - E) Pressure regulators.
20. Describe color coding in Anaesthesia Workstation.
21. Pre Op checking of Anaesthesia Workstation. What are the Emergency Drugs and Equipment to be ready for a Surgery

IV. Write Essays on any ONE of the following:

(1 x 20 = 20)

22. Categorize Anaesthesia Machine into Three Pressure Systems. Discuss Low Pressure System in Detail. Describe Flow Meter Assembly in Detail.
23. Describe following Related To Vaporizer
 - A) Mounting
 - B) Colour Coding
 - C) Filling And Draining
 - D) Maintenance
 - E) Hazards

(S.No.M21268)

