

VINAYAKA MISSION'S RESEARCH FOUNDATION, SALEM

B.Sc(ANAESTHESIA TECHNOLOGY) DEGREE EXAMINATIONS -August 2019

SECOND YEAR

INTRODUCTION TO ANAESTHESIA TECHNOLOGY

Three Hours

Maximum: 75 marks

SECTION - A

I. Choose the Best Answer :

(10 x 1 = 10)

1. Rate of gas flow is dependent upon what in the anesthesia machine?
A. Pressure drop across the constriction B. Size of the annular opening
C. The physical properties of the gas D. All of the above
2. How many sprockets are on a N₂O flowmeter?
A. 10 B. 12 C.14 D. 23
3. How is temperature compensated for with vaporizers. choose all that apply
A. Thermocompensation B. Injection C. Flow over D. Plenum E. Supplied heat
4. What is the gas we use as a carrier gas for agents?
A. Air B. N₂O C. Oxygen D. CO E. CO₂
5. If the APL valve is open and the ventilation bag squeezed where will all of it contents go
A. Scavenger system B. The patient
C. The circle system D. To the hospital gas supply
6. Define regulations
A. Accepted methods of practice B. Legal mandate
C. Micro-adjustments to the vaporizer D. Who cares I am just a SRNA
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 type of relief valve breaks and releases gas at high pressure to prevent rupture?
A. Rupture disc B. Combination C. Relief association D. Fusible plug
9. What gases are liquid in their cylinders?
A. O₂ B. Air C. CO₂ D. N₂O E. He
10. How many liter of O₂ are in a G cylinder?
A.660 B. 1500 C. 1200 D. 5300

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

(5 x 5 = 25)

11. Pin Index System
12. Hazards Of O₂ Therapy
13. Types Of Resuscitator Bags

(p.t.o)

14. Auxiliary O2 Flow Meter
15. Safety Features In Cylinders
16. Pulseoximetry
17. Mapleton F System

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

(2 x 10 = 20)

18. Write a Note On Following
A) Flow Control Valves B) Gas Power Outlet C) O2 Flush D) Pipeline Inlet Connections. E) Pressure Regulators.
19. Pre Op Checking Of Anaesthesia Work Station. What Are The Emergency Drugs and Equipment to be ready for a Surgery ?
20. Describe High Pressure System In Detail. Add Note On Following.
A) Pin Index B) Cylinder Valve C) Hanger Yoke D) Yoke Plug.
21. Describe Color Coding In Anaesthesia Workstation.

IV. Write Essays on any ONE of the following:

(1 x 20 = 20)

22. Describe Following Related To Face Masks
A) Parts B) Types C) Uses D) Difficult Mask Ventilation
E) Cleaning And Sterilization Of Face Masks
23. Describe Methods Of Providing Anaesthesia to Patient. Discuss On Following.
A) Inhalation Anaesthesia B) I.V Anaesthesia C) Regional Anaesthesia

(S.No.M21801)

