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Chapter 01: Medical Gas Supply Equipment

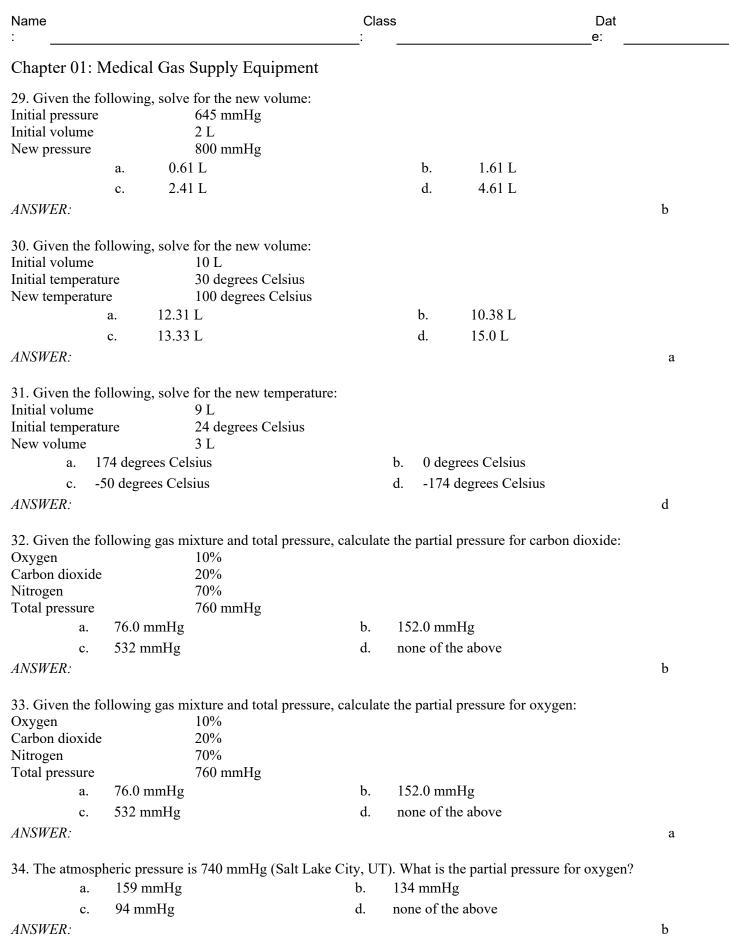
| 1. Which of the following are assumptions regarding the kir | netic the | ory of gases? | |
|--|-----------|--|--------------|
| I. Gases are composed of discrete molecules. | | | |
| II. Gas molecules are in random motion. | | | |
| III. All collisions between molecules are elastic in nature. | | | |
| IV. Temperature affects the molecular activity. a. I | b. | I and II | |
| | | | |
| c. I, II, and III | d. | I, II, III, and IV | |
| ANSWER: | | | d |
| 2. If the temperature of a gas decreases: | | | |
| a. molecular activity increases | b. | molecular activity decreases | |
| c. molecular activity remains the same | d. | the concentration gradient increases | |
| ANSWER: | | | b |
| 3. Elastic collisions between molecules implies that: | | | |
| I. there is no net energy transfer | | | |
| II. no energy is lost by the collision | | | |
| III. no energy is gained by the collision | | | |
| IV. net energy remains the same | b. | I and II | |
| *** | | | |
| c. I, II, and III ANSWER: | d. | I, II, III, and IV | d |
| 7111077 ZIL | | | u . |
| 4. Gas pressure will increase with: | | | |
| I. an increase in temperature | | | |
| II. a decrease in temperature | | | |
| III. a decrease in volume | | | |
| IV. an increase in volume | | 1 | |
| a. I and III | | b. I and IV | |
| c. II and III | | d. II and IV | |
| ANSWER: | | | a |
| 5. Pressure of a fluid at any point in a closed container is the | e same a | as the pressure at another point in the sa | me container |
| This best describes: a. Henry's law | b. | Fick's law | |
| | | Graham's law | |
| c. Pascal's law ANSWER: | d. | Granam s iaw | c |
| | | | |
| 6. The most accurate type of barometer is the: | | | |
| a. aneroid barometer | | b. mercury barometer | |
| c. mechanical manometer | | d. none of the above | |
| ANSWER: | | | b |
| 7. A type of pressure-measuring device used to measure the | pressu | e in a compressed-gas cylinder is a(n): | |
| a. aneroid barometer | b. | | |
| c. strain gauge transducer | d. | Bourdon gauge | |

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| ANSWER: | | d |
| 8. Gas flows from one point to another because: | | |
| a. of a pressure gradient | b. of a concentration grad | lient |
| c. of a difference in partial pressure | d. none of the above | |
| ANSWER: | | a |
| 9. Under which of the following circumstances will g I. if the pressure difference is large II. if the pressure difference is small III. if the opening between the points is large IV. if the opening between the points is small | | |
| a. I and III | b. I and IV | |
| c. II and III | d. II and IV | |
| ANSWER: | | a |
| 10. As gas velocity increases, lateral pressure decreasa. the kinetic theory of gasesc. Reynold's equation ANSWER: | es. This best describes: b. Pascal's law d. Bernoulli's principle | d |
| | | _ |
| 11. The principle of viscous shearing and vorticity many | | |
| a. gas pressure reduction valves | b. air/oxygen entrainment devic | es |
| c. measurement of gas flow | d. measurement of gas pressure | 1 |
| ANSWER: | | b |
| 12. High air flow with oxygen enrichment (HAFOE) | masks operate using: | |
| a. partial pressure differences | b. viscous shearing and vorticity | , |
| c. Bernoulli's principle | d. Pascal's law | |
| ANSWER: | | b |
| 13. High air flow with oxygen enrichment (HAFOE) I. changing nozzle size II. changing air entrainment port size III. changing oxygen liter flow into the mask IV. changing air liter flow into the mask | masks alter oxygen concentrations by: | |
| a. I | b. I and II | |
| c. I, II, and III | d. I, II, III, and IV | |
| ANSWER: | | b |
| 14. A venturi tube has an expanding radius that does | not exceed: | |
| a. 5 degrees | b. 10 degrees | |
| c. 15 degrees | d. 20 degrees | |
| ANSWER: | | d |

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| 15. A constan | t area duct: | | | | | |
| a. ha | s an increasing area as gas moves through the | he duct | | | | |
| b. ha | s a decreasing area as gas moves through th | e duct | | | | |
| c. ha | s an area that remains the same as gas move | es throug | gh the d | luct | | |
| | ne of the above | | | | | |
| ANSWER: | | | | | c | |
| 16. A constan | t area duct: | | | | | |
| a. | maintains forward velocity | | | | | |
| b. | decreases pressure for an increase in veloci | city | | | | |
| c. | increases pressure for a decrease in veloci | ty | | | | |
| d. | none of the above | | | | | |
| ANSWER: | | | | | a | |
| 17. A converg | ging duct: | | | | | |
| a. | maintains forward velocity | | | | | |
| b. | decreases pressure for an increase in veloci | eity | | | | |
| c. | increases pressure for a decrease in veloci | ty | | | | |
| d. | none of the above | | | | | |
| ANSWER: | | | | | b | |
| 18. Back press | sure distal to the point of entrainment in a h | igh air f | low wi | th oxygen enrichment (HA | FOE) mask will: | |
| a. | increase oxygen concentration | | | | | |
| b. | decrease oxygen concentration | | | | | |
| c. | have no effect on oxygen concentration | | | | | |
| d. | increase the total flow | | | | | |
| ANSWER: | | | | | b | |
| 19. An increas | se in pressure through a nozzle resulting in | no incre | ase in f | low best describes: | | |
| a. | Bernoulli's principle | | b. | the venturi effect | | |
| c. | choked flow | | d. | Reynold's number | | |
| ANSWER: | | | | | c | |
| 20. When flow | v is choked, gas velocity is: | | | | | |
| a. | sonic | b. | lami | nar | | |
| c. | well behaved | d. | none | of the above | | |
| ANSWER: | | | | | a | |
| 21. A gas's ve | elocity is said to be choked when: | | | | | |
| a. | velocity can no longer increase | | | | | |
| b. | a maximum temperature is reached | | | | | |
| c. | pressure is at a maximum | | | | | |
| d. | the gas concentration is at a maximum | | | | | |

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| ANSWER: | | a |
| 22. A Reynold's number calculation is perform a. laminar | ned, and the Reynold's numbe b. transitional | r is 5,000. How would this flow be described |
| c. turbulent ANSWER: | d. none of the ab | ove c |
| 23. A Reynold's number calculation is perform a. laminar | b. transitional | |
| c. turbulent ANSWER: | d. none of the ab | ove a |
| 24. A Reynold's number calculation is perform a. laminar c. turbulent ANSWER: | ned, and the Reynold's numbe b. transitional d. none of the ab | |
| 25. A 12-mm endotracheal tube is removed and a. Resistance remains the same.c. Resistance decreases. | b. Resistan | |
| 26. You double the length of an oxygen tube b effect on resistance to flow? a. Resistance remains the same. c. Resistance increases. ANSWER: | b. | tubing. Adding the additional tubing has what Resistance decreases. none of the above |
| 27. Which of the following are factors in Poise I. length II. radius III. pressure IV. viscosity a. I c. I, II, and III ANSWER: | uille's law? b. I and II d. I, II, III | , and IV d |
| 28. Given the following, calculate the new volume Initial pressure 645 mmHg Initial volume 3 L New pressure 720 mmHg a. 1.69 L c. 3.35 L | ume: b. d. | 2.69 L 4.69 L |
| ANSWER: | | ь |



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| 35. You are at sea level working in the NBRC | C Hospital. What is the | partial pressure for oxygen | ? |
| a. 159 mmHg | b. 134 | mmHg | |
| c. 94 mmHg | d. non | e of the above | |
| ANSWER: | | | a |
| 36. Given the following, solve for the new terms Initial pressure 760 mmHg Initial temperature 10 degrees Center New pressure 435 mmHg | | | |
| a. 111 degrees Celsius | b. | 11 degrees Celsius | |
| c75 degrees Celsius | d. | -111 degrees Celsius | |
| ANSWER: | | | d |
| 37. Given the following, calculate the initial to Initial pressure 700 mmHg Initial volume 10 L New pressure 650 mmHg New volume 40 L New temperature 32 degrees C a. 66 degrees Celsius c173 degrees Celsius ANSWER: | emperature: b. d. | 0 degrees Celsius -273 degrees Celsius | d |
| 38. Given the following, calculate the initial to Initial pressure Initial volume Solume 9 L New pressure 9,000 mmHg New volume 32 L New temperature 35 degrees Ce | | | |
| a. 134 degrees Celsius | b. | 13 degrees Celsius | |
| c229 degrees Celsius | d. | 273 degrees Celsius | |
| ANSWER: | | | c |
| 39. According to Graham's law, carbon dioxida. a. more soluble in blood b. less soluble in blood c. has the same solubility at the solubility at the soluble. | • | n oxygen is: | |
| ANSWER: | | | a |
| 40. The rate of diffusion of a gas into or out o describes: | f a liquid is directly pro | pportional to the partial pre | |
| a. Fick's law | b. | Henry's law | |
| c. Dalton's law | d. | Graham's law | |
| ANSWER: | | | b |
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| 41. The rat describes: | e of diffusior | n of a gas in a gas | eous me | edium is directly pr | oportion | nal to the concentration | on gradient. This best |
| | a. Fick' | s law | | b. | Hei | nry's law | |
| | c. Dalto | on's law | | d. | Gra | aham's law | |
| ANSWER: | | | | | | | a |
| 42. A comi | mon type of c | compressor used t | o nowe | home nebulizers i | s a: | | |
| a. | piston com | - | о ролго | b. | | fugal compressor | |
| c. | - | compressor | | d. | | tage compressor | |
| ANSWER: | | • | | | | | c |
| | | | | | | | |
| 43. A type | - | | a hospit | al or large clinic w | _ | | |
| a. | piston com | - | | b. | | fugal compressor | |
| C. | diaphragm | compressor | | d. | two-s | tage compressor | |
| ANSWER: | | | | | | | Ь |
| 44 An oxy | gen concentr | ator works using | the prin | cinle of | | | |
| a. | absorption | ator works using | b. | chemical reaction | to form | n oxvgen | |
| c. | compression | on | d. | adsorption | | , & | |
| ANSWER: | 1 | | | 1 | | | d |
| | | | | | | | |
| 45. As a ge | - | | more tl | nan how many feet | | asion tube to an oxyge | en concentrator? |
| | a. | 10 feet | | | b. | 20 feet 50 feet | |
| ANSWER: | c. | 30 feet | | | d. | 30 feet | .a |
| ANSWEK: | | | | | | | d |
| I. Know ho II. Keep the III. Keep th | ow large of ar e concentrato ne concentrat | n electrical load is or away from loos | s allowe se drape st vents, | d on the circuit you ries. registers, or basebo | ı wish to | | ? |
| | a. I | · | | b. | I and I | [| |
| | c. I, II, a | and III | | d. | I, II, II | I, and IV | |
| ANSWER: | | | | | | | d |
| 47 Wil.:-1 | of the fall | ing overcor | ntest- | hag an atta-l | that == | fill nortable | ovilindors? |
| | | | murators | nas an anachment | | n fill portable oxygen | cymuers: |
| a. | | ionAire3 TM | | | | vacare Perfecto ₂ V | |
| C. | AirSep Nev | wLife Intensity | | | d. In | vacare Platinum 10 | 1 |
| ANSWER: | | | | | | | b |

a. A separate power source (outlet) must be available.

b. It must be kept away from any heat source.

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| c. Only 3,500 psi cylind | ers may be filled. | |
| d. none of the above | · | |
| ANSWER: | | a |
| 49. When filling a portable reservoi a. it will spontaneously ig | r from a liquid reservoir for home use, you shou | ald be cautious because: |
| • | s compressed oxygen in a cylinder | |
| c. it is at a -183 degrees C | | |
| d. it is under very high pro | essure | |
| ANSWER: | | c |
| 50. When making the decision to us | e a liquid system for a patient's home, it is impo | ortant to: |
| a. ensure that gas usage ex | ceeds the rate of evaporation | |
| b. ensure that the patient d | pesn't need more that 2 L/min flow | |
| c. ensure that the liquid re | servoir is located away from draperies | |
| | essure liquid reservoirs are installed | |
| ANSWER: | | a |
| 51. Which of the following oxygen | concentrators are portable? | |
| I. AirSep VisionAire3 TM | | |
| II. AirSep FreeStyle TM | | |
| III. Invacare Perfecto ₂ V | | |
| IV. Invacare SOLO2 | | |
| a. I and III | b. I and Γ | V |
| c. II and III | d. II and I | IV |
| ANSWER: | | a |
| 52. Which of the following portable | liquid reservoirs incorporates a pneumatic cons | serving device? |
| a. Invacare Perfecto ₂ V | b. AirSep VisionA | _ |
| c. Caire HELiOS® | d. none of the abov | |
| ANSWER: | | c |
| | of a portable reservoir, and you determine that | it contains 10 lbs of liquid oxygen. |
| This is equivalent to: a. 100 L gaseous oxygen | b. 1,000 L of gas | caous avugan |
| c. 3,428 L of gaseous oxygen | | |
| ANSWER: | en u. 3,430 L 01 gas | c |
| | | |
| | able reservoir to determine its duration, you sho | |
| a. 5% | | 0% |
| c. 15% <i>ANSWER:</i> | d. 2 | d d |
| AINOWEA. | | u |

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| 55. The standar | rds for construction of a bulk supply piping | system is re | gulated by: | |
| | he Food and Drug Administration (FDA) | , system is re | guiated by: | |
| | he Department of Transportation (DOT) | | | |
| | he Compressed Gas Association (CGA) | | | |
| | he National Fire Protection Association (N | FPA) | | |
| ANSWER: | (1. |) | | d |
| , 27, 211, | | | | _ |
| I. liquid main s II. liquid main | alk supply systems include: supply with a liquid reserve supply with a cylinder manifold reserve anifold main supply with a cylinder manifo | ld reserve | | |
| а | ı. I | b. | I and II | |
| C | e. II and III | d. | I, II, and III | |
| ANSWER: | | | | d |
| 57 A 111 | | | | |
| • | gen supply system's tubing is made from: | | b. galvanized steel | |
| _ | oolyvinyl chloride (PVC) tainless steel | | | |
| c. s <i>ANSWER:</i> | tainiess steel | | d. copper | d |
| _ | pressure less than 25 psi pressure greater than 200 psi | | b. purity d. none of the abo | ve b |
| 59 Δ zone valv | ve controls oxygen flow: | | | |
| a. | to a ward or wing of a building | | | |
| b. | between floors | | | |
| c. | from the main reservoir to the building | | | |
| d. | none of the above | | | |
| ANSWER: | 110110 01 0110 1100 1 | | | a |
| | | | | |
| 60. A riser valv | ve controls oxygen flow: | | | |
| a. | to a ward or wing of a building | | | |
| b. | between floors | | | |
| c. | from the main reservoir to the building | | | |
| d. | none of the above | | | |
| ANSWER: | | | | a |
| 61 Most ovva | en alarm panels are located: | | | |
| | main entrance to the facility | h wher | re the oxygen enters the bu | ilding |
| | respiratory care department | | e switchboard | |
| ANSWER: | respiratory care department | a. ai iii | 5 Switchoodid | d |
| ANSWEN. | | | | u |

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| II. American Standa III. quick connect f | Safety System (DISS) fittings ard Safety System (ASSS) fittings fittings | | | |
| | only | | I and II only | |
| | I and III only | d. | I and III only | |
| ANSWER: | | | | d |
| I. uses different pito II. uses internal and III. is intended for l | idex safety system (DISS): ches and threads per inch d external threads low pressure (< 200 psi) high pressure (> 200 psi) | | | |
| a. I | | b. I and I | Ι | |
| c. I | , II, and III | d. I, II, II | II, and IV | |
| ANSWER: | | | | c |
| b. the cylc. the cyld. the cyl | inder may be used for 3 hours inder is made of chrome molybde inder is made of aluminum inder is of a fiber-wrapped alumin | | | |
| ANSWER: | | | | b |
| 65. Upon inspection shoulder. This mean | n you do not see the letter and num | mber combination of 3. | AL stamped into an oxy | gen cylinder's |
| | inder may be used for 3 hours | | | |
| b. the cyl | inder is made of chrome molybde | enum steel | | |
| c. the cyl | inder is made of aluminum | | | |
| d. the cyl | inder is of a fiber-wrapped alumin | num construction | | |
| ANSWER: | | | | c |
| ((A 51 | 1 .1 | .1 611 . 1 | | |
| a. | d aluminum oxygen cylinder may 2,200 psi | b. | 2,500 psi | |
| c. | 3,000 psi | d. | 3,500 psi | |
| ANSWER: | 3,000 psi | u. | 5,500 psi | c |
| mon Lit. | | | | Č |
| 67. During hydrosta | atic testing, a cylinder is filled to: | | | |
| a. 1/3 the | e service pressure | | ne service pressure | |
| c. $5/3$ the | e service pressure | d. 9/5 tl | ne service pressure | |
| ANSWER: | | | | c |
| 68. If a hydrostatic | test date has a "+" sign following | ; it: | | |

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| a. | the | cylinder must be tested i | in 5 years | | | | | |
| b. | | cylinder must be tested i | • | | | | | |
| c. | | cylinder must be tested i | • | | | | | |
| d. | | cylinder must be tested i | • | | | | | |
| ANSWER: | · · · · | cymnaer mass so tested i | iii i y guis | | | | | b |
| I. The cylinde II. The cylind III. The cylind | er conta er cont der may | lowing are true regarding ins 22 cubic feet when for ains 244 cubic feet when by be filled to 2,200 psi. by be filled to 3,000 psi. | ull. | e oxyg | gen cyli | inder? | | |
| | a. | I and III | | | b. | I and IV | | |
| | c. | II and III | | | d. | II and IV | | |
| ANSWER: | | | | | | | | a |
| I. The cylinde II. The cylind III. The cylind | er conta er cont der may | lowing are true regarding ins 22 cubic feet when fi ains 244 cubic feet when by be filled to 2,200 psi. I and III II and III | ull. | CONY | b. d. | I and IV II and IV | | |
| ANSWER: | | | | | | | | c |
| 71. The intern | national | color code for oxygen is | s: | | | | | |
| | a. | gray | | | b. | brown | | |
| | c. | green | | | d. | white | | |
| ANSWER: | | | | | | | | d |
| I. Leave the v II. Don't lift t | alve ca he cylin le or dra | nder by its cap. ag the cylinder. | ed when moving | g an "I | H" cylin | nder of oxygen? | | |
| a. | . I | | | b. | I and | II | | |
| c. | . I, | II, and III | | d. | I, II, | III, and IV | | |
| ANSWER: | | | | | | | | d |
| I. Post the nar II. Keep empt III. Use chain IV. Do not sto | mes of grand for second second to se | lowing should be observed gases being stored. Full cylinders separate. Eure the cylinders to the variable substances with the substance win the substance with the substance with the substance with the su | vall. | | | п | | |
| a. | | II1 III | | b. | I and | | | |
| ANSWER: | . I, | II, and III | | d. | 1, 11, | III, and IV | | d |

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| | cap in place until you attarecautions. threaded connections. | I when withdrawing cylinder cor ach a regulator or reducing valve | | |
| a. I | | b. I and II | | |
| c. I, I ANSWER: | I, and III | d. I, II, III, an | nd IV | d |
| reads 1,700 psi. How a. c. | | | • | , c |
| ANSWER: | | | | d |
| bagged with a bag-mathe cylinder is empty? | ask. You set the liter flow? | omputerized tomography (CT) to at 15 Lmin. The cylinder reads | 1,000 psi. How long | |
| | 14 minutes | | minutes | |
| | 18 minutes | d. 20 i | minutes | |
| ANSWER: | | | | c |
| • | er has 1,500 psi remainin | eeds to go home on an "E" cylind g. She needs to travel by car one | • | |
| AMORED | a. yes | b. | no | |
| ANSWER: | | | | a |
| | | er to your home base one and on ll "E" cylinders do you need for | | You are using a bag- |
| a | . one | b. | two | |
| c | . three | d. | four | |
| ANSWER: | | | | c |
| I. It acts directly on the | ne valve seat. stem moves a diaphragm. cylinders (H or K). l cylinders (E). | | | |
| a. | I and III | | and IV | |
| C. | II and III | d. II | and IV | 1 |
| ANSWER: | | | | b |
| 80. Which of the follo | | a direct-acting cylinder valve? | | |

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| II. Turning the valve stem moves a diaphragm. III. It is used on large cylinders (H or K). IV. It is used on small cylinders (E). | | | |
| a. I and III | | b. I and IV | |
| c. II and III | | d. II and IV | |
| ANSWER: | | | c |
| 81. Which of the following are safety features of cylinder v. I. American Standard Safety System threading II. pin index safety system connections III. fusible plugs IV. frangible disks | alves? | | |
| a. I | b. | I and II | |
| c. I, II, and III | d. | I, II, III, and IV | |
| ANSWER: | | | d |
| 82. Which of the following safety features may be incorporate. American standard safety system threads II. pin index safety system connections III. diameter index safety system threads IV. a pressure relief for each stage of pressure reduction | ated into | a reducing valve? | |
| a. I | b. | I and II | |
| c. I, II, and III | d. | I, II, III and IV | |
| ANSWER: | | | d |
| 83. A modified single-stage reducing valve is similar to a si a. It can deliver higher pressures. | _ | ge reducing valve with the exception of: It has a larger outlet. | |
| c. It has a larger inlet. | | It has a poppet closing spring. | |
| ANSWER: | u. | it has a popper closing spring. | d |
| | | | |
| 84. Which of the following are advantages of a two-stage re I. Higher flows may be provided. II. More accurate pressure regulation is possible. III. Stable high flow rates are possible. IV. It is more compact than a single-stage reducing valve. | educing | valve compared with a single-stage reduci | ng valve? |
| a. I | b. | I and II | |
| c. I, II, and III | d. | I, II, III, and IV | |
| ANSWER: | | | c |
| 85. A flowmeter attached to a reducing valve is known as a | : | | |
| a. complex reducing valve | b. | two-stage reducing valve | |
| c. regulator | d. | none of the above | |
| ANSWER: | | | c |
| 86. Air-oxygen blenders operate using: | | | |
| a. viscous shearing and vorticity | | b. Bernoulli's principle | |

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| c. proportioning valves ANSWER: | | d. two-stage reducing valves | c |
| 87. Prior to gas entering the proportioning valve of an air-o a. air and oxygen pressure are equal b. a two-stage reducing valve is connected to the b c. a single-stage reducing valve is connected to the | olender' | s inlet | |
| d. that both gas inlets are connected to oxygen <i>ANSWER</i> : | | | a |
| 88. Advantages of a Bourdon gauge flowmeter include whi I. It is very compact. II. It works in any position. III. It is accurate in the presence of back pressure. IV. It is back-pressure compensated. | ch of th | e following? | |
| a. I | b. | I and II | |
| c. I, II, and III ANSWER: | d. | I, II, III, and IV | ь |
| 89. In the presence of back pressure, a Bourdon gauge flow a. not be affected b. read higher than the actual flow delivered c. read lower than the actual flow delivered d. none of the above ANSWER: | meter v | vill: | b |
| 90. When using a Bourdon gauge flowmeter, it is important a. only operate it in the upright position b. only operate it when you can see the gauge c. be certain all tubing is free of kinks or obstruction d. adjust the inlet pressure to 50 psi prior to the single ANSWER: | s | reducing valve entrance | С |
| 91. Fixed orifice flowmeters operate by: a. the orifice size determining gas flow b. the pressure set proximal to the orifice determin c. the venturi principle d. balancing pressures across a proportioning valve ANSWER: | | s flow | a |
| 92. Which of the following are true regarding an uncompent I. The needle valve is proximal to the Thorpe tube. II. The needle valve is distal to the Thorpe tube. III. The flowmeter reads accurately in the presence of back | | - | |

| Name · | Class | | | Dat e: | |
|---|--|---------|-------------------------------|-----------|---|
| Chapter 01: Medical Gas Supply Equipme | ent – | | | | |
| IV. The flowmeter reads higher in the presence of | back pressure. | | | | |
| a. I and III | coon pressure. | b. | I and IV | | |
| c. II and III | | d. | II and IV | | |
| ANSWER: | | | | | b |
| 93. Which of the following are true regarding a col. The needle valve is proximal to the Thorpe tube. II. The needle valve is distal to the Thorpe tube. III. The flowmeter reads accurately in the presence IV. The flowmeter reads higher in the presence of | e of back pressur | | | | |
| a. I and III | | b. | I and IV | | |
| c. II and III | | d. | II and IV | | |
| ANSWER: | | | | | c |
| 94. How can you determine if you have a compen I. The needle valve is proximal to the Thorpe tube II. The needle valve is distal to the Thorpe tube. III. The ball "jumps" in the Thorpe tube when con IV. The label states "calibrated 760 mmHg, 70 degran a. I and III | nnected to 50 psi. grees F, 50 psi in b. | let and | outlet pressure." , and IV | | |
| c. II and III | d. | 11, 11 | I, and IV | | |
| ANSWER: | | | | | d |
| 95. A pediatric flowmeter is calibrated from: | | | | | |
| a. 0 to 3 L/min | b. | 0 to 1 | 5 L/min | | |
| c. 0 to 75 L/min | d. | none | of the above | | |
| ANSWER: | | | | | a |
| 96. Pulse demand delivery devices are advantaged. I. they only deliver oxygen during inspiration II. they can conserve large amounts of oxygen III. they work well with ambulatory patients | ous because: | | | | |
| a. I | b. | I | and II | | |
| c. II and III | d. | I, | II, and III | | |
| ANSWER: | | | | | d |
| 97. When troubleshooting a pulse demand oxygen I. the oxygen cylinder for sufficient pressure II. the battery for proper voltage (charge) III. the battery for proper installation IV. the cannula for kinks or obstructions | device, you shou | ıld che | eck: | | |
| a. I | b. | I and | l II | | |
| c. I, II, and III | d. | I, II, | III, and IV | | |
| ANSWER: | | | | | d |

98. Which of the following liquid systems do not need to be refilled?

| Name | Class | Dat |
|------|--------|-----|
| : | · · | e: |

Chapter 01: Medical Gas Supply Equipment

- a. Caire HELiOS®
- b. Caire Liberator®
- c. Caire Stroller®
- d. Respironics HomeLox

ANSWER: