Quiz 1

1. ______ is a “permissive term.”
   - Shall
   - Must
   - Required
   - May

2. Medical air shall be supplied from ______.
   - cylinders
   - bulk containers
   - medical air compressors
   - all of the answers provided

3. Medical air shall be required to have less than ______ gaseous hydrocarbons.
   - 10 ppm
   - 25 ppm
   - 50 ppm
   - 100 ppm
   - 250 ppm

4. Medical gas means ______.
   - patient medical gas
   - medical support gas
   - either of the answers provided
   - neither of the answers provided

5. A medical gas manifold is a device for connecting outlets of ______ gas cylinders to the central piping system for that specific gas.
   - one
   - two
   - one or more

Mobile users – Many current mobile devices are compatible with AnytimeCE and will probably work. If not, use a desktop or laptop computer to complete your course.
6. A medical gas system is an assembly of equipment and piping for the distribution of nonflammable medical gases such as _______.
   - oxygen
   - nitrous oxide
   - compressed air
   - carbon dioxide
   - all of the answers provided

7. A medical gas system includes the following:
   - gas manifolds
   - gas cylinders
   - gas monitors
   - shut off valves
   - all of the answers provided

8. Nitrogen or instrument air used in laboratories are not respired as part of a treatment is known as medical support gas.
   - True
   - False

9. Medical-surgical vacuum is known as a method used to provide a source of drainage, aspiration, and suction in order to remove body fluids from patients.
   - True
   - False

10. Medical-surgical vacuum system is an assembly of central vacuum-producing equipment and a network of piping for patient suction in ______ applications.
    - medical
    - surgical
    - waste anesthetic gas disposal (WAGD)
    - any of the answers provided
    - none of the answers provided

11. The horizontal piping of a drainage system that begins ______ downstream from the last mobile home site and conveys it to a public sewer, private sewer, private sewage disposal system, or other point of disposal.
    - 2 feet
    - 4 feet
    - 6 feet
    - 8 feet

12. Mulch ______.
    - is organic material such as wood chips and fines, tree bark chips, and pine needles
    - is used in a mulch basin to conceal gray water outlets
    - permits the infiltration of gray water
    - all of the answers provided

13. A mulch basin is a subsurface catchment area for gray water that is filled with mulch, and that is of sufficient depth and volume to prevent ponding, surfacing, or runoff.
    - True
    - False

14. Nitrogen complying, at a maximum, with oil-free, dry nitrogen NF.
    - True
    - False

15. A combination of elbows or bends in a line of piping that brings one section of the pipe out of line but into a line parallel with the other section is known as ______.
    - plumbing vent
    - vent stack
    - common
    - offset

16. Clarifier interceptor is known as an oil interceptor.
    - True
    - False

17. Non-potable water, including gray water that has been ______ to be used on-site and is suitable for direct beneficial use.
    - collected
    - treated
    - intended
    - any of the answers provided
    - none of the answers provided

18. A room of a health care facility where patients are intended to be examined or treated is known as _______.
    - critical care room
    - patient care room
    - general care room
    - basic care room
19. A room in which the failure of equipment or a system is not likely to cause injury to the patients or caregivers but can cause patient discomfort is known as ______.
- basic care room
- patient care room
- general care room
- critical care room

20. A room in which failure of equipment or a system is likely to cause major injury or death of patients or caregivers is known as ______.
- general care room
- basic care room
- critical care room
- patient care room

Quiz 2
1. A room in which failure of equipment or a system is likely to cause minor injury to patients or caregivers is known as ______.
- critical care room
- basic care room
- patient care room
- general care room

2. Piped gases such as oxygen, nitrous oxide, helium, carbon dioxide, and medical air that are used in the application of human respiration is defined as patient medical gas.
- True
- False

3. Polybutylene piping systems were known as ______.
- “the worst pipe for plumbing”
- “the pipe of the future”
- “the common one”
- “the cheap stuff”

4. When did PE pipe first take place?
- 2000’s
- 1980’s
- 1950’s
- 1850’s
- 1920’s

5. PE-AL-PE is abbreviated as Polyethylene-aluminum-polyethylene.
- True
- False

6. PE-RT is abbreviated as Polyethylene of raised temperature.
- True
- False

7. PEX is an abbreviation for ______.
- Cross-Linked Polyethylene
- Permanent Expanded Xylene
- Professional Exam Cross Check
- Plumbing Exam
- none of the answers provided

8. A cylindrical conduit or conductor conforming to the particular dimensions is known as ______.
- pipe
- pipe size
- either of the answers provided
- neither of the answers provided

9. A person that engages in general plumbing service work is, according to the UPC, considered to be ______.
- a journeyman plumber
- the owner of a plumbing business
- plumbing
- a plumbing contractor

10. Which item is NOT a plumbing fixture?
- A clinic sink.
- An industrial safety shower.
- A kitchen sink.
- Industrial tanks or vats.

11. A plumbing official is also known as the Authority Having Jurisdiction.
- True
- False

12. A plumbing system shall include ______.
- all potable water, building supply, and distribution pipes
- all plumbing fixtures and traps
- all drainage and vent pipes
- all building drains
- all of the answers provided

13. A plumbing vent is used to ventilate a system to prevent ______.
- trap siphonage
- backpressure
- both of the answers provided
- neither of the answers provided
14. A plumbing vent is also used to ventilate a system to equalize the air pressure within the drainage system.
   - True
   - False

15. The purpose of a venting system is ______.
   - to provide a flow of air to or from a drainage system
   - to provide a circulation of air within such system so as to protect trap seals from siphonage and backpressure
   - either of the answers provided
   - neither of the answers provided

16. Water from a tap has a light brown hue and smells bad but testing revealed that the water is safe to drink. It would be classified as ______.
   - A. a nuisance
   - B. a low hazard
   - C. polluted
   - D. unsafe
   - E. both B and C

17. Water which is safe to drink is known as ______.
   - potable water
   - tap water
   - certified water
   - drinking water

18. A mechanical collection for joining tubing that uses a crimping tool to affix the O-ring seal to ______ fitting to the tubing.
   - copper
   - copper alloy
   - either of the answers provided
   - neither of the answers provided

19. The tubing shall be inserted into the fitting, and the crimp shall be made using the tool recommended by ______.
   - your boss
   - your neighbor
   - the manufacturer
   - the UPC

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**Quiz 3**

1. The ______ is a device that equalizes hot and cold water flow to prevent temperature fluctuations.
   - metering valve
   - tub shower valve
   - temperature pressure relief valve
   - pressure-balancing valve

2. A pressure-lock-type connection is made by inserting the pipe or tubing into the fitting to a prescribed depth.
   - True
   - False

3. A central supply that produces medical air (USP) reconstituted from oxygen USP and nitrogen NF by means of a ______.
   - mixer
   - blender
   - either of the answers provided
   - neither of the answers provided

4. PVC is an abbreviation for Polyvinyl Chloride.
   - True
   - False

5. PVDF stands for ______.
   - Polyvinyl Difluoride
   - Polyvinylidene Fluoride
   - Polyvinyl Dissipated Fluorine
   - Poly Acrylic Vinylidene Fluoride

6. A quick-disconnect device is a hand-operated device that provides a means for connecting and disconnecting a hose to a water supply, and that is equipped with a means to shut off the water supply when the device is disconnected.
   - True
   - False

7. Rainwater is ______.
   - natural precipitation that has not been contaminated by use
   - natural precipitation that has been contaminated by use
   - water that may also be pumped from deep wells
   - none of the answers provided
8. Which of the following statements are true about a rainwater catchment system?
   - It is a system that collects, stores and uses rainwater from a rooftop.
   - It is a system that collects, stores and uses rainwater from another.
   - It is a man-made aboveground collection surface.
   - It is also known as a rainwater harvesting system.
   - all of the answers provided

9. The rainwater storage tank is the central component of the rainwater catchment system.
   - True
   - False

10. A receptor adequately receives the discharge from ______ to be constructed and located as to be readily cleaned.
    - direct waste pipes
    - drainage waste pipes
    - indirect waste pipes
    - water distribution pipes

11. Reclaimed water is ______.
    - nonpotable water provided by a water/wastewater utility
    - nonpotable water that is a result of tertiary treatment of domestic wastewater
    - nonpotable water which meets requirements of the public health Authority Having Jurisdiction for its intended uses
    - all of the answers provided
    - none of the answers provided

12. Regulating equipment is (are) ______.
    - a valve in the plumbing system
    - a control in the plumbing system
    - parts of the plumbing system that are required to be accessible or readily accessible
    - all of the answers provided

13. The purpose of a/n ______ is to provide circulation of air between the drainage and venting systems.
    - relief vent
    - secondary vent
    - supplementary vent
    - add-on vent

14. A “remote outlet” refers to ______.
    - the point where the water can be drained from the water system to prevent freezing
    - the furthest fixture
    - the furthest point water from the meter base
    - the most remote accessible cleanout

15. A water supply pipe that extends vertically ______ full story(s) to convey water to branches or fixtures.
    - one
    - two
    - three
    - four

16. A ______ is a device on a rooftop that receives water collecting on the surface and discharges it into a downspout.
    - leader
    - roof drain
    - an up spout
    - conductor

17. A typical roof washer would have the following components except a ______.
    - leaf screen
    - gutter
    - clean out and valve
    - basket strainer
    - chlorinator

18. A plumbing system has been installed except for setting/hooking up the fixtures. At this point the installation is labeled a ______.
    - system install
    - roughing-in
    - rough-out
    - partial install

Quiz 4
1. SDR means ______.
   - standard dimensional ratio
   - statistical dimensional rating
   - standard diameter resource
   - sewer discharge rate

2. A lined excavation in the ground which receives the discharge of a septic tank is known as a ______.
   - sand filter
   - sand interceptor
   - seepage pit
   - remote septic field
3. Any liquid waste containing animal or vegetable matter in suspension or that may include liquids containing chemicals in solution is known as ______.
   - sewage
   - black water
   - white water
   - gray water

4. Sewage ejector is a device for listing sewage by entraining it on a low-velocity jet stream.
   - True
   - False

5. A slip joint consists of ______.
   - a compression washer
   - a compression nut
   - a friction ring
   - all of the answers provided

6. A sterilizer disinfects ______ by a way of heat.
   - instruments
   - equipment
   - both of the answers provided
   - neither of the answers provided

7. The pipe or tubing that connects the outlet of a plumbing fixture to a trap is called a ______.
   - trap tailpiece
   - drain tailpiece
   - vent tailpiece
   - vacuum tailpiece

8. That portion of a fixture drain between the trap and the vent is called a ______.
   - wet vent
   - dirty arm
   - trap arm
   - drain line

9. Crown weir is the highest point in the cross section of the horizontal waterway at the exit of the trap.
   - True
   - False

10. Top dip (of trap) is the ______ point in the internal cross-section of a trap at the lowest part of the bend.
    - lowest
    - highest
    - average

11. Trap seal is the vertical distance between the crown weir and the top dip of the trap.
    - True
    - False

12. A device that prevents excessive vacuum in a pressure vessel is called a/n ______.
    - anti-vacuum device
    - relief vacuum valve
    - air intake valve
    - atmospheric equalizer valve
    - vacuum relief valve

13. Vacuum system-level 1 consists of a central vacuum-producing equipment with pressure and operating ______ and terminating with suitable station inlets at locations where patient suction could be required.
    - shutoff valves
    - alarm warning systems
    - gauges
    - controls
    - any of the answers provided

Quiz 5
1. An isolation valve ______.
   - isolates one piece of equipment from another
   - must be a ball valve
   - must be a gate valve
   - must only be installed on water lines
   - none of the answers provided

2. Vent pipes ______.
   - provide a way to ventilate a plumbing system
   - prevent trap siphonage and backpressure
   - equalize the air pressure within the drainage system
   - all of the answers provided
3. Any pipe that is installed at an angle greater than 45 degrees from horizontal is considered to be a ______ pipe.
   - crooked
   - vertical
   - horizontal
   - bent

4. A water closet installed so that it does not touch the floor is known as ______.
   - side-wall hung
   - back-hung
   - well-hung
   - wall-hung

5. Waste is also defined as ______.
   - liquid waste
   - industrial waste
   - either of the answers provided
   - neither of the answers provided

6. In a hospital setting, WAGD is commonly discussed by building facilities personnel and plumbers. WAGD means ______.
   - Waste Anesthesia Gas Disposal
   - Water and Gas Differential
   - Waste and Garbage Disposal
   - none of the answers provided

7. A pipe that moves waste, free of fecal matter is called a ______.
   - waste pipe
   - drain line
   - sewer line
   - none of the answers provided

8. A device that treats water by filtering out suspended solids is known as ______.
   - A. a water-conditioning device
   - B. a water-treating device
   - C. both A and B
   - D. neither A or B

9. The ______ moves the potable water from the building supply pipe to the plumbing fixtures.
   - water distributing pipe
   - structure water system
   - potable water system
   - none of the answers provided

10. A water hammer arrester is a device designed to provide protection against hydraulic shock in the building water supply system.
    - True
    - False

11. A water heater or hot water heating boiler is designed primarily to supply hot water for domestic or commercial purposes, and is equipped with automatic controls limiting water temperature to a maximum of ______.
    - 120°F
    - 180°F
    - 200°F
    - 210°F
    - 212°F

12. The potable water system that is buried in public streets is known as a ______.
    - A. street main
    - B. water main
    - C. public main
    - D. both A and B

13. A water supply system consists of all the following except ______.
    - a building supply pipe
    - the water distribution pipes
    - the necessary connecting pipes
    - backflow prevention devices
    - none of the answers provided

14. A water/wastewater utility is ______.
    - a public or private entity which may treat and/or deliver reclaimed (recycled) water and/or potable water and/or both to wholesale and/or retail customers
    - private
    - non-profit
    - all of the answers provided
    - none of the answers provided

15. A pipe welder holds a certificate from ASME Boiler and Pressure Vessels code, Section IX.
    - True
    - False
16. A vent that also serves as a drain is known as a ______.
   • dirty arm vent
   • wet arm vent
   • combination waste and vent
   • wet vent

17. To be called a Whirlpool, a bathtub must be manufactured by Whirlpool Corp. of Benton Harbor, MI. USA.
   • True
   • False

18. A ______ bathtub is equipped and fitted with a circulating piping system designed to accept, circulate, and discharge bathtub water upon each use.
   • GE
   • Lennox
   • A.O. Smith
   • Whirlpool
   • Delta

19. A ______ is a pipe connection from a waste stack to a vent stack for the purpose of preventing pressure changes in the stacks.
   • yoke vent
   • vent crossover
   • safety measure
   • Durham system