

# UPC DEFINITIONS - NON- Illustrated Course

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## Quiz - 1

Question 1: A branch can be in any part of the plumbing system except:

- a. the main
- b. the riser
- c. the stack
- d. any one of the above

Question 2: Boiler Blowoff is:

- a. a device used reduce pressure in the high pressure side of a system.
- b. a device used to discharge sediment from a boiler.
- c. cannot exceed 2x working pressure.
- d. none of the above.

Question 3: The top edge of a receptor from which water overflows is known as

- a. flooded
- b. flood level
- c. the flood level rim
- d. A and B are both correct

Question 4: The pressured feed water to a boiler flows into the water potable water system. This is an example of \_\_\_\_\_

- a. back-pressure backflow
- b. boiler blown down
- c. infiltration
- d. forward pressure fore flow.

Question 5: A \_\_\_\_\_ is a device on a rooftop that receives water collecting on the surface and discharges it into a downspout \_\_\_\_\_

- a. leader
- b. roof drain
- c. an up spout
- d. conductor

Question 6: The length along the center line of a pipe and fittings is known as \_\_\_\_\_.

- a. the developed distance
- b. the measured length
- c. the measured distance
- d. the developed length

Question 7: A slip joint consists of:

- a. a compression washer
- b. a compression nut
- c. a friction ring
- d. all of the above

Question 8: The \_\_\_\_\_ is a device that equalizes hot and cold water flow to prevent temperature fluctuations.

- a. metering valve
- b. tub shower valve
- c. temperature pressure relief valve
- d. pressure balancing valve

Question 9: A \_\_\_\_\_ is a device that is installed in a sanitary drainage system to intercept non-petroleum fats, oils and grease from a waste water discharge.

- a. Grease Interceptor
- b. NPF Disposal System
- c. Effluent Separation Interceptor
- d. FOG Disposal System

Question 10: A \_\_\_\_\_ is a waste system that has rigid threaded DWV piping with recessed fittings.

- a. Durham system
- b. primitive plumbing system
- c. cast iron system
- d. galvanized system

Question 11: A \_\_\_\_\_ is a pipe connection upward from a waste stack to a vent stack for the purpose of preventing pressure changes in the stacks.

- a. yoke vent
- b. vent cross over
- c. safety measure
- d. Durham system

Question 12: A "remote outlet" refers to:

- a. the point where the water can be drained from the water system to prevent freezing.
- b. the furthest fixture.
- c. the furthest point from the cold or hot water from its point of source.
- d. the most remote accessible clean out.

Question 13: An effective opening is:

- a. the minimum cross-sectional area at the point of water supply discharge measured in terms of a circle.
- b. the minimum cross-sectional area at the point of water supply discharge measured in terms of a circular equivalent to the cross sectional area.
- c. both of the above.
- d. neither of the above.

Question 14: An excess flow valve (EFV) is:

- a. a valve designed to open when the fuel gas passing through exceeds a prescribed flow rate.
- b. A valve designed to activate when the fuel gas passing through exceeds a prescribed flow rate.
- c. A valve designed to close when the fuel gas passing through dips below a prescribed flow rate.
- d. A valve designed to open when the fuel gas passing through dips below a prescribed flow rate.

Question 15: "Shall" means \_\_\_\_\_.

- a. required
- b. recommended
- c. optional
- d. all of the above

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- Question 16: Clear water waste is \_\_\_\_\_
- a. waste cooling water
  - b. condensate from refrigeration systems
  - c. condensate from air conditioning systems
  - d. condensate from steam heating systems
  - e. all of the above

True  
False

- Question 17: PEX is an abbreviation for \_\_\_\_\_
- a. Cross-Linked Polyethylene
  - b. Permanent Expanded Xylene
  - c. Professional Exam Cross Check
  - d. Plumbing Exam
  - e. none of the above

Question 25: A Grease Removal Device (GRD) that automatically, mechanically removes non-petroleum fats oils and grease (FOG) from the interceptor, the control of which are either automatic or manually initiated.

True  
False

- Question 18: Acrylonitrile-butadiene-styrene is:
- a. a type of material used to create conduit for conveying building drain.
  - b. special caulking for ceramic tile.
  - c. a toxic material that is banned for potable water systems.
  - d. the chemical that is a controlled substance.
  - e. also known as ABS in the trade.

## Quiz – 2.

Question 1: The bathroom in a restaurant has a locking door to permit only person or family at one time to use the single water closet in the facilities. This bathroom is considered to be \_\_\_\_\_.

- a. public
- b. private
- c. private use
- d. both B and C are correct

- Question 19: A device that treats water by filtering out suspended solids is known as a:
- a. water conditioning device
  - b. water treating device
  - c. both A and B are correct
  - d. neither A or B are correct

Question 2: A control valve is installed in a new installation and must be accessible. Accessible means that it will be \_\_\_\_\_

- a. accessed directly without any obstructions.
- b. accessed by cutting an access into a wall.
- c. accessed by removing a fixture or appliance.
- d. accessed by removing an access door.
- e. none of the above

- Question 20: An area drain is a receptor designed to collect surface or storm water from an open area.
- a. True
  - b. False

Question 3: A Backwater Valve is installed in a water supply system to prevent reverse flow.

True  
False

- Question 21: A person that engages in general plumbing service work is, according to the UPC, considered to be \_\_\_\_\_
- a. a journeyman plumber
  - b. the owners of a plumbing business
  - c. plumbing
  - d. a plumbing contractor

Question 4: A gravity grease interceptor is identified by all of the following EXCEPT \_\_\_\_\_

- a. 30-minute retention time
- b. baffle(s)
- c. a minimum of three (3) compartments
- d. a minimum total volume not less than 300 gals.

- Question 22: A water hammer arrester is a device designed to provide protection against hydraulic shock in the building water supply system.
- a. True
  - b. False

Question 5: Which item is NOT a plumbing fixture?

- a. A clinic sink
- b. An industrial safety shower
- c. A kitchen sink
- d. An industrial tanks or vats

- Question 23: A cesspool....
- a. holds organic solids
  - b. is a lined excavation
  - c. permits liquids to seep through the bottom and sides
  - d. all of the above
  - e. none of the above

Question 6: A trap seal is the \_\_\_\_\_ distance between the crown weir and the top dip of the trap.

- a. horizontal
- b. vertical
- c. average
- d. maximum
- e. minimum

- Question 24: A shielded coupling is an approved elastomeric sealing gasket with an approved outer shield and a tightening mechanism.

Question 7: Hot water is defined as water temperature greater than or equal to:

- a. 100 °F

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- b. 120 °F
- c. 130 °F
- d. 140 °F

Question 8: Any and all liquid or water-borne waste from industrial or commercial processes, except domestic sewage is referred to as.....

- a. sewage
- b. waste
- c. industrial waste
- d. commercial waste

Question 9: A connection with a potable water system that could cause it to be unsafe is a know as

- a. \_\_\_\_\_
- a. cross-condition
- b. cross-connection
- c. effective opening
- d. critical-connection

Question 10: A water closet that is installed so that it does not touch the floor is:

- a. side-wall hung
- b. back-hung
- c. well-hung
- d. wall-hung

Question 11: The building supply pipe, the water-distributing pipes and all fittings and appurtenances are known as \_\_\_\_\_.

- a. a potable water system
- b. a water supply system
- c. a water distributing pipe
- d. a structure water system

Question 12: Approved means acceptable to the \_\_\_\_\_.

- a. the general contractor
- b. the home owner
- c. AHJ
- d. the bank.

Question 13: Flammable fumes is the concentration of flammable constituents in the air that exceeds \_\_\_\_\_ percent of its lower flammability limit.

- a. 25
- b. 50
- c. 75
- d. 100

Question 14: \_\_\_\_\_ pressure is the pressure existing without any flow.

- a. Residual pressure
- b. Calibrated pressure
- c. Direct pressure
- d. Static pressure

Question 15: A lined excavation in the ground which receives the discharge of a septic tank so designed

as to permit the effluent from the septic tank to seep through its bottom and sides is a \_\_\_\_\_.

- a. sand filter
- b. sand interceptor
- c. seepage pit
- d. remote septic field

Question 16: The potable water system that is generally buried in public streets is known as:

- a. street main
- b. water main
- c. public main
- d. A and B are correct

Question 17: How many definitions are found under the letter O in the UPC?

- a. 0
- b. 1
- c. 2
- d. 3

Question 18: A device that prevents foreign liquid/matter from flowing back into the potable system is known as a \_\_\_\_\_.

- a. backflow preventer
- b. double check valve assembly
- c. anti-flow meter
- d. none of the above

Question 19: A vent that also serves as a drain is known as a \_\_\_\_\_.

- a. dirty arm vent
- b. wet arm vent
- c. combination waste and vent
- d. wet vent
- e. dirty arm drain

Question 20: The unobstructed vertical distance through the free atmosphere between the lowest opening from a potable water faucet to the flood rim of a fixture is known as \_\_\_\_\_.

- a. a water distribution airgap
- b. an drainage airgap
- c. an airbreak
- d. indirect waste
- e. none of the above

Question 21: A Hydro-mechanical Grease Interceptor incorporates one of the following EXCEPT:

- a. External flow control, with air intake (vent): directly connected
- b. External flow control, with air intake (vent): indirectly connected
- c. External flow control, without air intake (vent): directly connected
- d. Without external flow control, directly connected
- e. Without external flow control, indirectly connected

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Question 22: A pipe that moves waste no fecal mater is called a:

- a. waste pipe
- b. drain line
- c. sewer line
- d. both B and C are correct

Question 23: On a remodel, old plumbing work was uncovered that does not meet the latest current code. This work is considered to be \_\_\_\_\_.

- a. accepted
- b. approved
- c. existing work
- d. a mess.
- e. all of the above

Question 24: A drain that dumps into a drainage system, that does not make physical connection with the drain and has a physical gap between the two is known as \_\_\_\_\_

- a. an airgap
- b. an airbreak
- c. indirect waste pipe
- d. direct waste pipe

Question 25: Any pipe that is installed at an angle less then 45 degrees from vertical is considered \_\_\_\_.

- a. crooked
- b. vertical
- c. horizontal
- d. bent

## Quiz – 3

Question 1: A legally recorded individual area of land that is built or being built and regulated by this code and is in possession of the owner is called a \_\_\_\_

- a. lot
- b. plot
- c. short plot
- d. property
- e. headache

Question 2: A vent connecting one or more individual vents with a vent stack is know as a \_\_\_\_\_.

- a. combination vent
- b. connecting vent
- c. T vent
- d. branch vent

Question 3: Material or equipment that holds the mark of an approved listing agency is considered to be:

- a. approved
- b. listed
- c. registered
- d. labeled

Question 4: To be called a riser, a vertical water line must extend at least:

- a. 12 inches
- b. 36 inches
- c. one full story or more
- d. there is no height requirement

Question 5: Two showers that are installed in a single bathroom are known as a:

- a. customized shower
- b. gang shower
- c. group shower
- d. both B and C are correct

Question 6: The vertical DWV main of a system extending through 1 or more stores is referred to as a \_\_\_\_\_.

- a. soil stack
- b. VTR stack
- c. stack
- d. DWV stack

Question 7: A person that is competent to test backflow assemblies to the satisfaction of the AHJ is known as a \_\_\_\_\_.

- a. plumber
- b. journeyman plumber
- c. certified backflow assembly tester
- d. any of the above

Question 8: The pipe that supplies potable water from the water meter to a building or to another point of use is known as a(n) \_\_\_\_\_.

- a. the building supply
- b. irrigation line
- c. water service
- d. both A and C are correct

Question 9: That portion of a fixture drain between the trap and the vent is called a \_\_\_\_\_

- a. wet vent
- b. dirty arm
- c. trap arm
- d. drain line

Question 10: An installation that could allow waste to flow into the potable system is called \_\_\_\_\_.

- a. a backflow connection
- b. back-siphonage
- c. a backflow condition
- d. none of the above

Question 11: Any pipe that is installed at an angle greater then 45 degrees from horizontal is considered to be a \_\_\_\_\_ pipe.

- a. crooked
- b. vertical
- c. horizontal
- d. bent

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Question 12: The building drain must extend \_\_\_\_\_ from the outside of the building wall to the building sewer.

- a. 2 feet
- b. 4 feet
- c. 6 feet
- d. 8 feet

Question 13: The term to describe when fittings are used to bring pipes together instead of making a slight bend is \_\_\_\_\_.

- a. an offset
- b. an inset
- c. a reset
- d. a non-set

Question 14: Supports are also known as...

- a. hangers
- b. anchors
- c. members
- d. both A and B are correct

Question 15: The exterior vertical drainage pipe for conveying storm water from roof or gutter drains is called a \_\_\_\_\_.

- a. rain drain riser
- b. leader
- c. conductor
- d. gutter drain

Question 16: PVDF stands for:

- a. Polyvinyl Difluoride
- b. Polyvinylidene Fluoride
- c. Polyvinyl Dissipated Fluorine
- d. Polyacrylic Vinyndene Fluoride

Question 17: The word "should" in the plumbing code means \_\_\_\_\_.

- a. recommended
- b. required
- c. mandatory
- d. all of the above

Question 18: Regulating equipment is/ are \_\_\_\_\_:

- a. a valve in the plumbing system
- b. a control in the plumbing system
- c. the parts of the plumbing system that are required to be accessible or readily accessible
- d. all of the above

Question 19: The \_\_\_\_\_ moves the potable water from the building supply pipe to the plumbing fixtures.

- a. water distributing pipe
- b. structure water system
- c. potable water system
- d. all of the above

Question 20: The part of the horizontal piping of a drainage system that extends from the end of the building drain and that receives the discharge of the

building drain and conveys it to another point of disposal is know as the \_\_\_\_\_.

- a. building sewer
- b. street connection
- c. disposal sewer line
- d. waste and gray water line

Question 21: A sewer system from a new housing development is to be connected into a public system in the street. This system is classified as a \_\_\_\_\_.

- a. certified private disposal system
- b. public sewer
- c. private sewer
- d. standard disposal system

Question 22: A building drain (sanitary) conveys sewage only.

True  
False

Question 23: An individual vent is \_\_\_\_\_.

- a. a pipe that terminates in the open air.
- b. a pipe that connects to a vent system that is above the fixture that it serves
- c. a pipe that vents a fixture
- d. all of the above
- e. none of the above

Question 24: An unconfined space must have at more than \_\_\_\_\_ cubic feet per 1000 BTUH of fuel-burning appliances installed in that space.

- a. 1
- b. 50
- c. 75
- d. 100
- e. 200

Question 25: A \_\_\_\_\_ is that part of a plumbing system that is installed to serve more than one fixture.

- a. combination
- b. gang
- c. multiple
- d. common
- e. none of the above

## Quiz - 4

Question 1: The principal artery of any system of continuous piping to which branches may be connected is called \_\_\_\_\_.

- a. an arterial line.
- b. the principal line.
- c. the main.
- d. any of the above

Question 2: A device that separates hazardous wastes from normal wastes and permits normal wastes to discharge into the disposal terminal by gravity is called a \_\_\_\_\_.

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- a. retention tank
- b. clarifier
- c. interceptor
- d. both B and C are correct

Question 3: Potable water \_\_\_\_\_

- a. flows into pots, pans, bottles and containers
- b. is for potted plants
- c. is used to irrigate "pot" plants and other controlled substances.
- d. all of the above
- e. none of the above

Question 4: A drain that does not drain by gravity into the building sewer is referred to as \_\_\_\_\_

- a. a building subdrain
- b. a supplementary building drain
- c. a building storm sewer
- d. an illegal drain—all must tie into city sewer

Question 5: The pressure available at the fixture outlet after all other losses in the system during max. demand periods is called \_\_\_\_\_ pressure.

- a. gauge
- b. static
- c. street
- d. main line
- e. residual

Question 6: SDR means \_\_\_\_\_.

- a. standard dimensional ratio
- b. statistical dimensional rating
- c. standard diameter resource
- d. sewer discharge rate

Question 7: CPVC is \_\_\_\_\_.

- a. Cold Pressurized Valve Connection
- b. Conductor Pressure Value Coefficient
- c. Chlorinated Poly (Vinyl Chloride)
- d. Calculated Pressure Valve Capacity

Question 8: A drain line that catches subsurface and/or seepage water is known as a \_\_\_\_\_.

- a. subsurface drain
- b. below grade drain
- c. storm drain
- d. subsoil drain

Question 9: A bathroom group must include

- a. a water closet
- b. a water closet and a sink
- c. a water closet, a sink and a bathtub or shower
- d. a bathtub or shower

Question 10: A storm sewer conveys all of the following except \_\_\_\_\_.

- a. fecal material
- b. rainwater
- c. condensate
- d. surface water

- e. cooling water

Question 11: Vent pipes \_\_\_\_\_.

- a. provide an ability for sewer gas to vent to the atmosphere
- b. stops back siphonage of traps
- c. relieves pressure in the drainage system
- d. all of the above

Question 12: The water line between the angle stop and the water closet is called \_\_\_\_\_

- a. fixture supply
- b. toilet tank supply line
- c. fixture branch
- d. flexible water supply line

Question 13: A building storm sewer may convey sewage.

- a. True
- b. False

Question 14: A maximum of \_\_\_\_\_ lavatories in sets can serviced by a single trap.

- a. one
- b. two
- c. three
- d. four

Question 15: An installation that is required to be readily accessible means that it can be:

- a. accessed by cutting into a wall.
- b. accessed by removing an access panel, door or another accepted method.
- c. accessed by removing a fixture or appliance.
- d. none of the above.

Question 16: A cross-connection can result in non-potable water entering into the system.

- True
- False

Question 17: 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. B and C are both correct

Question 18: A plumbing system has been installed except for setting/ hooking up the fixtures. At this point the installation is labeled a \_\_\_\_\_.

- a. system install
- b. roughing-in
- c. rough-out
- d. partial install

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Question 19: \_\_\_\_\_ is the term used in a case in which potable water that has bacteria that creates a public health hazard.

- a. Contamination
- b. High hazard
- c. Non- drinkable
- d. Non- sanitary
- e. A and B

Question 20: The purpose of a \_\_\_\_\_ vent is to provide circulation of air between the drainage and venting systems.:

- a. relief vent
- b. secondary vent
- c. supplementary vent
- d. add-on vent

Question 21: A \_\_\_\_\_ is between the water line to a kitchen sink and the main water line.

- a. water line
- b. auxiliary line
- c. branch supply line
- d. arterial line
- e. fixture branch

Question 22: Water which is safe to drink is known as \_\_\_\_\_

- a. potable water
- b. tap water
- c. certified water
- d. drinking water

Question 23: An insanitary condition could mean \_\_\_\_.

- a. a trap does not maintain a proper trap seal
- b. there is a defect in a trap or fitting
- c. a cross connection is installed that could lead to contamination of the potable water system
- d. all of the above
- e. none of the above

Question 24: A macerating toilet system \_\_\_\_\_.

- a. grinds the effluent and pumps it to a approved point of discharge.
- b. cannot be installed on a private sewer/ disposal system.
- c. is insanitary.
- d. originally was designed and installed in Macedonia.

Question 25: The elevation of the design flood relative to the datum on the community's designated flood hazard map is know as the \_\_\_\_\_.

- a. design flood elevation
- b. flood plain
- c. overflow field
- d. high water area.
- e. none of the above

## Quiz –5

Question 1: Domestic sewage may contain industrial wastes.

- True
- False

Question 2: The physical separation that may be a low inlet into the indirect waste receptor from the fixture is known as \_\_\_\_\_.

- a. the specified gap
- b. an air break
- c. a break gap
- d. a space break

Question 3: A pressure surge-absorbing device operating through the compressibility of air is known as a water hammer arrester or as a \_\_\_\_\_.

- a. vibration damper
- b. vibration arrester
- c. shock absorber
- d. shock arrester
- e. none of the above

Question 4: A drain is \_\_\_\_\_ pipe that carries waterborne wastes in a building drainage system.

- a. ABS pipe
- b. 1 ½ inches or larger
- c. 3 inches or larger
- d. galvanized or copper
- e. any

Question 5: "Diameter" is usually the nominal diameter as designated commercially.

- True
- False

Question 6: A fitting supplied with water under a positive pressure that passes through an integral orifice causing a vacuum is called:

- a. a vacuum tap
- b. a pressure tap
- c. a negative pressure tap
- d. an aspirator

Question 7: The flow of water into the distributing pipes of a potable supply of water from any source other than its intended source is known as \_\_\_\_\_.

- a. forward flow
- b. backflow
- c. side flow
- d. reversed flow

Question 8: The flowing back of polluted water from a plumbing fixture into the water supply pipe because of pressure lower than atmospheric is know as \_\_\_\_\_.

- a. reversed flow.
- b. backing up flow
- c. negative flow connection

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- d. contaminated flow
- e. back-siphonage

Question 9: A room equipped with a water closet and a lavatory is known as \_\_\_\_\_.

- a. ¼ bathroom
- b. ½ bathroom
- c. bathroom
- d. any of the above
- e. none of the above

Question 10: Any group of two or more similar, adjacent fixtures that discharge into a common horizontal waste or soil branch is called a:

- a. double bathroom
- b. double discharge
- c. multiple fixture connection
- d. battery of fixtures

Question 11: A quantity in terms of which the load producing effects on a plumbing system of different kinds of fixtures are expressed is known as a \_\_\_\_\_.

- a. load
- b. fixture unit
- c. fixture number
- d. load unit
- e. none of the above

Question 12: A \_\_\_\_\_ tank is located above a water closet for the purpose of flushing the usable portion of the fixture.

- a. rinse
- b. hose
- c. storage
- d. water
- e. flush

Question 13: A building drain that conveys only sewage is known as a \_\_\_\_\_.

- a. waste drain
- b. black water drain
- c. human waste drain
- d. building drain sanitary
- e. building storm drain

Question 14: A building drain that conveys only storm water but no sewage is known as a \_\_\_\_\_.

- a. waste drain
- b. black water drain
- c. human waste drain
- d. sanitary building drain
- e. building drain storm

Question 15: A building sewer that conveys storm water and sewage is known as a \_\_\_\_\_.

- a. rain drain
- b. white water drain
- c. unsanitary waste drain
- d. storm building drain
- e. building sewer -combined

Question 16: A tank integrated within an air accumulator vessel that discharge a preset amount of flushing water is known as a \_\_\_\_\_.

- a. Hydraulic tank
- b. Pressure water tank.
- c. Flushometer tank.
- d. Single flush tank.
- e. Metered flush tank.

Question 17: Slope also means \_\_\_\_\_.

- a. angle
- b. run
- c. offset
- d. grade
- e. all of the above

Question 18: Top Dip (of trap) is the \_\_\_\_\_ point in the internal cross-section of a trap at the lowest part of the bend.

- a. lowest
- b. highest
- c. average

Question 19: A sink that receives wastes from bedpans, has a flush rim, an integral trap with a visible trap seal and is similar to a water closet is known as \_\_\_\_\_.

- a. clinic sink
- b. bedpan sink
- c. nursing home sink
- d. hospital sink

Question 20: A system of waste piping embodying the horizontal wet venting of one or more sinks by a common waste and vent pipe, that is sized for free air movement above the flow line of the drain is a \_\_\_\_\_.

- a. cross connection system
- b. multiple connection system
- c. combination waste and vent system
- d. double connection system

Question 21: A pipe inside the building which conveys storm water from the roof to a storm drain/combined building sewer is known as a \_\_\_\_\_.

- a. conductor
- b. insulator
- c. interior wall roof drain
- d. enclosed drain

Question 22: A room or space having a volume less than 50 cubic feet per 1000 BTUH of the aggregate input rating of all fuel-burning appliances installed in that space is known as a \_\_\_\_\_.

- a. non-vented room
- b. undersized space
- c. redefined space
- d. confined space

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Question 23: A vertical vent that is a continuation of the drain to which it connects is known as a(n) \_\_\_\_\_.  
a. non-interrupted vent  
b. continuous vent  
c. extended vent  
d. combination vent

Question 24: A drain connecting the compartment of a set of fixtures to a trap is known as a \_\_\_\_\_.  
a. non-interrupted waste  
b. continuous waste  
c. extended waste  
d. combination waste

Question 25: A single family dwelling can have maximum \_\_\_\_ of family units.  
a. 1  
b. 2  
c. 3  
d. less than 14.

## Quiz -6

Question 1: A vacuum is any pressure \_\_\_\_ than that exerted by the atmosphere.  
a. less  
b. more  
c. equal (to)

Question 2: The rain leader from the roof to the building storm drain located outside of the building is known as a(n) \_\_\_\_\_.  
a. elbow  
b. leave port  
c. leaf port  
d. downspout

Question 3: A device that prevents excessive vacuum in pressure vessel is called a \_\_\_\_\_.  
a. anti-vacuum device  
b. relief vacuum valve  
c. air intake valve  
d. atmospheric equalizer valve  
e. a vacuum relief valve

Question 4: The term Unsanitary could be used for Insanitary.  
True  
False

Question 5: A welded joint or seam is any joint that is joined together by epoxy cement.  
True  
False

Question 6: A drain from the trap of a fixture to the junction of that drain with any other drainpipe is known as a \_\_\_\_\_.  
a. combination drain  
b. continuous drain

c. multiple-use drain  
d. fixture drain  
e. any of the above

Question 7: When the liquid rises to the flood level rim, the fixture is known as \_\_\_\_\_.  
a. overloaded  
b. overflowed  
c. flooded  
d. capacity excess

Question 8: A valve located at the bottom of the tank for the purpose of flushing water closets is known as a \_\_\_\_\_.  
a. basin valve  
b. tank valve  
c. flush valve  
d. waste valve

Question 9: A piper welder holds a certificate from ASME Boiler and Pressure Vessels Code, Sec. IX.  
True  
False

Question 10: The fall a line of pipe in reference to a horizontal plane is known as \_\_\_\_\_.  
a. grade  
b. drop  
c. decline  
d. degrees

Question 11: A Crown or Trap Weir is the \_\_\_\_\_ point in the cross-section of the horizontal waterway at the exit of the trap.  
a. lowest  
b. highest  
c. average  
d. design

Question 12: The lowest portion of the inside of a horizontal pipe is known as the \_\_\_\_\_.  
a. bottom  
b. BDC  
c. invert  
d. convert

Question 13: A joint obtained by joining 2 metal parts with alloys which melt at a temperature up to and including 840° F is known as \_\_\_\_\_.  
a. sweat joint  
b. soldered joint  
c. brazed joint  
d. welded joint

Question 14: A Whirlpool Bathtub must be manufactured by Whirlpool Corp. of Benton Harbor, MI. USA.  
True  
False

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Question 15: \_\_\_\_\_ is "permissive term."

- a. Shall
- b. Must
- c. Required
- d. May

Question 16: A \_\_\_\_\_ bathtub is equipped and fitted with a circulating piping system designed to accepted, circulate, and discharge bathtub water upon each use.

- a. GE
- b. Lennox
- c. A.O. Smith
- d. Whirlpool
- e. Delta

Question 17: A building is a structure for housing, shelter or support of person, animals, or property of any kind.

- True
- False

Question 18: A mixing valve that senses incoming hot and cold water temperatures and compensates for fluctuations in either to stabilize outlet temperatures is known as a(n) \_\_\_\_\_ .

- a. mixing valve
- b. pressure balancing valve
- c. Combination Thermostatic/Pressure Balancing valve
- d. anti-scalding valve

Question 19: The \_\_\_\_\_ is a standard that is an extensive compilation of provisions that is adopted into law independently of other standards.

- a. Code
- b. Guideline
- c. Guide
- d. Rule
- e. none of the above

Question 20: A \_\_\_\_\_ valve discharges a predetermined quantity of water to fixtures for flushing and is actuated by direct water pressure.

- a. rise
- b. flood
- c. Flushometer
- d. dump
- e. fast acting sweep

Question 21: High Hazard in used interchangeably with \_\_\_\_\_.

- a. pollution
- b. non-potable
- c. fouled
- d. contamination
- e. none of the above

Question 22: FOG is an abbreviation for \_\_\_\_\_.

- a. fats, oils, grease
- b. floating on grease
- c. flood on grade
- d. flush on grade

Question 23: Any liquid waste containing animal or vegetable matter in suspension or that may include liquids containing chemicals in solution is known as \_\_\_\_\_.

- a. sewage
- b. black water
- c. white water
- d. gray water

Question 24: Liquid waste includes fecal mater.

- True
- False

Question 25: A joint obtained by joining 2 metal parts with metallic mixtures or alloys which melt at a temperature above 840° F is known as \_\_\_\_\_.

- a. sweat joint
- b. soldered joint
- c. brazed joint
- d. welded joint