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Quiz 1 (701.0 – 712.2)

1. Galvanized steel pipe shall be kept at least _____ aboveground.
 - 5 inches
 - 6 inches
 - 7 inches
 - 8 inches
2. Vitrified clay pipe or fittings shall be used aboveground or where pressurized by a pump or ejector.
 - True
 - False
3. Vitrified clay pipe shall be kept at least _____ belowground.
 - 11 inches
 - 12 inches
 - 13 inches
 - 300 inches
4. Copper tube for drainage and vent piping shall have a weight equal to or greater than copper drainage tube type _____.
 - DWV
 - PVC
 - LDS
- all of the answers provided
5. _____ and fittings shall not be installed underground; in addition, they shall be kept at least 6 inches aboveground.
 - Stainless steel 304 pipe
 - Titanium 403 pipe
 - Vitrified clay pipe
 - Surgical tubing
6. For continuous flow into a drainage system from a pump, _____ fixture units shall be equal to each gpm of flow.
 - 5
 - 4
 - 3
 - 2
7. The minimum size of vertical drainage piping shall be determined from the total of all fixture units connected, in accordance with their _____.
 - width
 - length
 - pipe type
 - all of the answers provided

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8. Horizontal drainage lines connecting with other horizontal drainage lines can enter through 45-degree wye branches.
 - True
 - False
9. Each cleanout fitting for cast-iron pipe shall consist of a cast-iron or brass body and an approved plug.
 - True
 - False
10. Plugs need to have raised _____ heads or approved countersunk rectangular slots.
 - oval
 - square
 - triangle
 - hexagonal
11. Each cleanout fitting and cleanout plug or cap must be of a/n _____ type.
 - new
 - improvised
 - approved
 - all of the answers provided
12. Cleanouts must be designed to be gas- and watertight.
 - True
 - False
13. Each horizontal drainage pipe shall be provided with a/n _____ at its upper _____. Each run of piping that is more than 100 feet in total _____, shall be provided with a cleanout every 100 feet in length of the pipe.
 - cleanout – terminal – developed length
 - cleanup – terminator – developed strength
 - outlet – pump – developed length
 - water trap – faucet – width
14. There must be an additional cleanout in a drainage line for each aggregate horizontal change of direction exceeding 135 degrees.
 - True
 - False
15. Each cleanout extension should be installed according to section 707.6.
 - Yes
 - No
 - Mostly yes with some exceptions
 - Mostly no with some exceptions
16. When practicable, all plumbing fixtures should be drained by gravity to the sewage disposal system.
 - True
 - False
17. A fixture installed lower than the next upstream manhole cover should have an approved type of backwater valve.
 - Always, Yes
 - Never, No
 - Yes, if the manhole cover of the public or private sewer is protected from backflow of sewage.
 - No, if the manhole cover of the public or private sewer is protected from backflow of sewage.
18. A sewage ejector or sewage pump receiving the discharge of water closets needs to have a minimum discharge capacity of at least _____.
 - 15 gpm
 - 20 gpm
 - 25 gpm
 - 30 gpm
19. The discharge line from an ejector or pump shall be provided with an accessible _____.
 - backwater valve
 - swing check valve and gate
 - ball valve
 - any of the answers provided
20. A gravity drainage line connects to another horizontal drain line. The connection should be made through the top of a wye branch fitting.
 - True
 - False
21. Drainage connections shall not be made into a drainage piping system within _____ of any vertical to horizontal change of direction of a stack containing suds-producing fixtures.
 - 8 feet
 - 8 yards
 - 2438 cm
 - 243 mm

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22. Bathtubs, laundries, washing machine standpipes, and dishwashers are all considered to be _____.
 - suds-removing fixtures
 - normal fixtures
 - suds-producing fixtures
23. Section 711.0 (Suds Relief) has the following exception:
 - Single-family residences
 - Stacks receiving the discharge from less than 4 stories of plumbing fixtures
 - Stacks receiving the discharge from less than 5 stories of plumbing fixtures
 - No exceptions are in the code
24. The piping of the plumbing, drainage and venting systems shall be tested with _____.
 - air only
 - water only
 - air and water
 - air or water, except that plastic pipe should not be tested with air
25. During a water test, the water should be kept in the system for at least _____, before inspection starts.
 - 15 minutes
 - a half-hour
 - overnight
 - a work-week
- Quiz 2 (712.3 – 801.2.2)**
1. The air test shall be made by attaching an air compressor testing apparatus to any suitable opening, closing all inlets and outlets, and applying a uniform gauge pressure of 10 psi to the system.
 - True
 - False
2. The pressure shall be held without introduction of additional air for a period of at least _____.
 - a half-hour
 - 15 minutes
 - 20 minutes
 - 60 minutes
3. The subdivision into smaller parcels of a lot that abuts and is served by a public sewer, shall not be deemed cause to permit the construction of _____.
 - public roads
 - a private sewage disposal system
 - a sidewalk
 - all of the answers provided
4. A public sewer may be considered not available if it is located more than 300 feet from any proposed building or exterior drainage facility on any lot or premises that it abuts and serves.
 - True
 - False
5. _____ shall be issued for the installation of a private sewage disposal system, on any lot connected to a public sewer.
 - A citation
 - A permit
 - No permit
 - No citation
6. Cesspools, septic tanks, seepage pits, or drain fields shall not _____.
 - be connected to any public sewer or to any building sewer leading to a public sewer
 - be removed for health reasons
 - be left alone
 - have extra approved check valves installed
7. Pipe, brick, block, _____, or other parts in the installation of building sewers or private sewage disposal systems shall conform to the approval requirements in Chapter 3 of this code.
 - prefabricated septic tanks
 - seepage pit covers
 - both of the answers provided
 - none of the answers provided
8. Building sewers shall be run in practical alignment and at a uniform slope of not less than 1/4 of an inch per _____ towards the point of disposal.
 - yard
 - foot
 - meter
 - inch

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9. There are no exceptions to 718.1.
 - True
 - False
10. Building sewer piping shall be laid on a firm bed throughout _____.
 - its entire length
 - the building
 - class 2 fire hazard areas
 - its width
11. No sewer constructed of materials other than those approved for use under or within a building, shall be installed under or within _____ of any building or structure, nor less than _____ below the surface of the ground.
 - 2 feet – 1 foot
 - 1 foot – 2 feet
 - 3 feet – 4 feet
 - 4 feet – 3 feet
12. Cleanouts shall be placed inside the building near the connection between the building drain and the building sewer, or installed outside the building at the lower end of the building drain and _____.
 - the street
 - a public sewer
 - extended to grade
 - extended to level
13. Additional building sewer cleanouts shall be installed at intervals not to exceed 100 feet in straight runs, and for each aggregate horizontal change in direction exceeding 135 degrees.
 - True
 - False
14. When a building sewer does not exceed 10 feet in length and is _____ from a building drain provided with a cleanout, no cleanout will be required at its point of connection to the building drain.
 - connected
 - a straight-line projection
 - greater than five feet
 - 90 degrees
15. Cleanouts installed under concrete or asphalt paving shall be made accessible by _____.
 - yard boxes
 - drilling holes in the concrete or asphalt
 - installing a manhole
16. The maximum distance between manholes shall not exceed _____.
 - 300 inches
 - 300 feet
 - 300 yards
 - all of the answers provided
17. Every abandoned building sewer should be plugged or capped in an approved manner within 5 feet of the property line.
 - True
 - False
18. Where disposal facilities are _____ consequent to connecting any premises with the public sewer, the permittee making the connection shall fill all _____ facilities.
 - operational – abandoned
 - abandoned – abandoned
 - abandoned – operational
 - operational – operational
19. Where disposal facilities are abandoned consequent to connecting any premises with the public sewer, the permittee making the connection shall fill all abandoned facilities required by the _____ within 30 days.
 - federal government
 - state government
 - city
 - Authority Having Jurisdiction
20. Where a drainage air gap is required by this code, the minimum vertical distance as measured from the lowest point of the indirect waste pipe or the fixture outlet to the flood-level rim of the receptor, shall not be less than 1 inch.
 - True
 - False
21. Establishments engaged in storage, preparation, selling, serving, processing, or other shall provide indirect waste piping for refrigerators, walk-in coolers, steam tables, egg boilers, and similar equipment.
 - True
 - False

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22. Except for refrigeration coils and ice-making machines, the minimum size of the indirect waste pipe shall not be smaller than the drain on the unit, and shall not be less than _____.
- 4 inches
 - 3 inches
 - 2 inches
 - 1 inch
23. Indirect waste pipe for ice-making machines shall not be smaller than the drain on the unit, and shall not be less than 5/8 of an inch.
- True
 - False
24. For walk-in coolers, _____ shall be required to be connected to a separate drainage line discharging into an outside receptor.
- floor vents
 - roof vents
 - floor drains
 - roof drains
25. The _____ of the receptor shall be a minimum of 6 inches lower than the lowest floor drain.
- flood-level rim
 - check valve
 - placement
 - fireproof rim
- Quiz 3 (801.2.2 – 807.4)**
1. Cleanouts shall be provided at every _____ turn and shall be accessibly located.
- 360 degree
 - 45 degree
 - 90 degree
 - 180 degree
2. Such waste shall discharge through a/n _____ into a trapped and vented receptor, except that a full-size air gap is required where the indirect waste pipe is under vacuum.
- check valve
 - full-size air gap
 - air gap or air break
 - PVC pipe
3. The piping from the equipment to the receptor shall be not less than the drain on the unit, and in no case less than _____.
- 1/4 of an inch
 - 1/2 of an inch
 - 3/4 of an inch
 - 1 inch
4. Where the sink in a bar, soda fountain, or counter is located that the trap serving the sink cannot be vented, the sink shall discharge through a/n _____ into an approved receptor.
- check valve
 - air gap or air break
 - approved water discharger
 - PVC pipe
5. The developed length from the fixture outlet to the receptor shall not exceed _____.
- 5 inches
 - 5 feet
 - 5 yards
 - the length of the pipe
6. Indirect waste connections shall be provided for _____.
- drains
 - overflows
 - water heaters
 - boilers
 - all of the answers provided
7. Stills, sterilizers, and similar equipment requiring waste connections, and that are used to sterilize materials, shall be indirectly connected by means of a/n _____.
- check valve
 - air gap
 - sink trap
 - one-way valve
8. Each such indirect waste pipe shall be separately piped to the receptor, and shall not exceed 15 feet in length. Such receptors shall be located _____.
- in the same building
 - in a visible location
 - in the same room

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9. Appliances, devices, or apparatus not regularly classified as plumbing fixtures, but which have drip or drainage outlets, shall be permitted to be drained by indirect waste pipes discharging into an open receptor through either _____.
 - an air gap or air break
 - a one-way valve or a check valve
 - PVC or galvanized pipe
 - all of the answers provided
10. No plumbing fixtures that are served by indirect waste pipes, or that receive discharge from those pipes, shall be installed until first approved by the Authority Having Jurisdiction.
 - True
 - False
11. No vent from indirect waste piping shall combine with any sewer-connected vent, but shall extend separately to _____.
 - the public sewer
 - a private sewer
 - outside air
 - inside air
12. Indirect waste pipes exceeding 5 feet, but less than 15 feet in length, shall be directly trapped, but such traps won't be vented.
 - True
 - False
13. Indirect waste pipes less than _____ in length shall be not less than the diameter of the drain outlet or tailpiece of the fixture, appliance, or equipment served, and in no case less than 1/2 of an inch.
 - 5 feet
 - 10 feet
 - 15 feet
 - 20 feet
 - 30 feet
14. Angles and changes of direction in such indirect waste pipes shall be provided with _____ to permit flushing and cleaning.
 - cleanouts
 - check valves
 - air gaps
 - none of the answers provided
15. All plumbing fixtures or other receptors receiving the discharge of _____ shall be approved for the use proposed, and shall be of such shape and capacity as to prevent splashing or flooding.
 - drainage lines
 - indirect waste pipes
 - gases and liquids
 - direct waste pipes
16. No standpipe receptor for any clothes washer shall extend more than 30 inches, nor less than _____, above its trap.
 - 12 inches
 - 18 inches
 - 24 inches
 - 30 inches
17. No trap for any clothes washer standpipe receptor shall be installed below the floor, but shall be roughed in not less than _____, and not more than 18 inches above the floor.
 - 5 inches
 - 6 inches
 - 7 inches
 - 8 inches
18. An indirect waste receptor can be installed in any toilet room, closet, cupboard, or storeroom.
 - True
 - False
19. Where water service connections are installed for a clothes washer, an approved method of waste disposal shall be provided.
 - True
 - False
20. Indirect waste connections shall be provided for _____ but not piping or equipment carrying wastes or producing wastes of other discharges under pressure.
 - drains
 - overflows
 - relief vents
 - any of the answers provided
 - none of the answers provided

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21. Appliances and similar equipment requiring water and waste are used to sterile materials shall be drained through a/n _____.
- air gap
 - strainer
 - check valve
 - indirect sewage line
22. Appliances, devices, equipment, or other apparatus not regularly classed as plumbing fixtures, which are equipped with pumps, drips, or drainage outlets, shall be permitted to be _____ by indirect waste pipes discharging into an approved type of open receptor.
- connected
 - drained
 - attached
 - emptied
23. When undiluted condensate waste from a fuel-burning condensing appliance is discharged into the drainage system, the material in the drainage system shall be _____.
- pottery, ceramic or porcelain
 - cast-iron, galvanized iron or plastic
 - copper, brass or bronze
 - none of the answers provided
24. A domestic dishwashing machine shall not directly connect to a food waste disposer without an approved dishwasher air gap fitting on the discharge side of the dishwashing machine.
- True
 - False
25. Listed _____ shall be installed with the flood-level (FL) marking at or above the flood level of the sink or drainboard, whichever is higher.
- check valves
 - air gaps
 - PVC pipe
 - none of the answers provided

Quiz 4 (808.0 – 813.1)

1. Clean running water used exclusively as a cooling medium in an appliance, device, or apparatus shall be discharged into the drainage system through the inlet side of the fixture trap.
- True
 - False
2. Such trap connection shall be by means of a pipe connected to the inlet side of an approved fixture trap, the upper end terminating in a funnel-shaped receptacle set adjacent, and not less than _____ above the overflow rim.
- 4 inches
 - 5 inches
 - 6 inches
 - 7 inches
 - 8 inches
3. A drinking fountain may be installed with indirect wastes.
- True
 - False
4. A steam pipe may be directly connected to any part of a plumbing or drainage system.
- True
 - False
5. Water above 140°F may be discharged under pressure into any part of a drainage system.
- True
 - False
6. Such pipes shall be indirectly connected by discharging into an open or closed condenser or an intercepting sump of an approved type.
- True
 - False
7. Condensers and sumps shall be properly trapped at the outlet, with a deep seal trap extending to within _____ of the bottom of the tank.
- 3 inches
 - 4 inches
 - 6 inches
 - 8 inches

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8. The top of the deep seal trap shall have a _____ opening located at the highest point of the trap.
 - 1/4 of an inch
 - 1/2 of an inch
 - 3/4 of an inch
 - 1 inch
9. Wearing plates or baffles shall be installed in the tank to protect the shell.
 - True
 - False
10. Intercepting tanks constructed of concrete shall have walls and bottoms not less than _____ in thickness.
 - 2 inches
 - 3 inches
 - 4 inches
 - 5 inches
11. Condensers constructed of metal shall be not less than U.S. standard 12 gauge. All such metal condensers shall be protected from external corrosion by an approved _____ coating.
 - insulation
 - plastic
 - bituminous
 - lead
12. Sumps and condensers shall be provided with suitable means of access for _____.
 - servicing
 - flushing
 - cleaning
 - greasing
13. In Table 810.1, if the boiler blowoff valve is 1-1/2 inch, what must the water outlet be?
 - 1 inch
 - 1-1/4 inch
 - 1-1/2 inch
 - 2 inches
14. In Table 810.1, if you have a vent size of 5 inches, what water and blowoff valve size would you need?
 - 1 inch – 1-1/4 inch
 - 2 inches – 1-1/2 inch
 - 2 inches – 1-3/4 inch
 - 2 inches – 2 inches
 - 3 inches – 1-1/4 inch
15. Every indirect waste interceptor receiving discharge with particles that would clog the receptor drain, must have a readily removable _____.
 - drain
 - dip pan
 - beehive strainer
 - mesh
16. Chemical or industrial liquid wastes that are likely to damage or increase maintenance costs on the sanitary sewer system shall _____.
 - be ignored
 - detrimentally affect sewage treatment
 - be pretreated to render them innocuous prior to discharge into a drainage system
 - be taken out of the system and brought to a storage facility
17. Drainage discharge piping from pretreatment facilities or interceptors shall not conform to standard drainage installation procedures.
 - True
 - False
18. Copper tube may be used for chemical or industrial wastes.
 - True
 - False
19. Joining materials shall be of approved type and quality.
 - True
 - False
20. Wherever practicable, piping shall be readily accessible and installed with this amount of clearance for other services:
 - None
 - Minimum
 - Maximum
 - All of the answers provided
 - None of the answers provided
21. The owner shall maintain a permanent record of the locations of all piping and venting carrying _____.
 - indirect waste
 - normal waste
 - chemical waste
 - water

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22. No chemical vent shall intersect vents for other services.
 - True
 - False
23. Chemical wastes shall not be discharged in a manner approved by the Authority Having Jurisdiction.
 - True
 - False
24. _____, sprinkler systems, drip or overflow pans shall discharge through an indirect waste.
 - Clay pipes, air tanks, heating tanks
 - Water lifts, expansion tanks, cooling jackets
 - PVC pipes, galvanized pipes, cooling tanks
25. Pipes carrying wastewater from a swimming pool, including pool drainage and backwash from filters, shall be installed as a/n _____.
 - indirect waste
 - direct waste
 - chemical waste
 - industrial waste
- 126-250 Tons
5. In Table 814.1, if the size of the waste pipe is 2 inches, how much refrigeration would surface?
 - 21-40 Tons
 - 41-90 Tons
 - 91-125 Tons
 - 126-250 Tons
6. In Table 814.1, if any drainage or waste system was condensing about 54 tons, what would be the appropriate size of piping?
 - 3/4 of an inch
 - 1 inch
 - 1-1/4 inch
 - 2 inches
7. In Table 814.1, if any drainage or waste system was condensing about 126 tons, what would be the appropriate size of piping?
 - 3/4 of an inch
 - 1 inch
 - 1-1/4 inch
 - 2 inches

Quiz 5 (813.1 – 904.1)

1. Where a pump is used to discharge waste pool water to the drainage system, the pump discharge shall not be installed as an indirect waste.
 - True
 - False
2. Where discharging into the drainage system, equipment shall drain by means of an indirect waste pipe. The waste pipe shall have a slope of not less than _____ per foot.
 - 1 inch
 - 1/2 of an inch
 - 1/8 of an inch
 - 1/16 of an inch
3. Condensate or wastewater shall not drain over a public way.
 - True
 - False
4. In Table 814.1, if the size of the waste pipe is 1-1/2 inches, how much refrigeration would surface?
 - 21-40 Tons
 - 41-90 Tons
 - 91-125 Tons
8. Air-conditioning waste pipes shall be constructed of materials specified in _____.
 - Chapter 2
 - Chapter 6
 - Chapter 7
 - Chapter 12
 - Chapter 16
9. Air-conditioning condensate waste pipes shall connect indirectly to the drainage system through a/n _____ to a properly trapped and vented receptor.
 - PVC pipe
 - air gap or air break
 - vent pipe
 - drainage pipe
10. Each plumbing fixture trap shall be protected against siphonage and backpressure, and air circulation shall be ensured throughout all parts of the drainage system.
 - True
 - False

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11. The vent system shall be designed to prevent a trap seal from being exposed to a pressure differential that exceeds _____ of a water column on the outlet side of the trap.
 - 1/2 inch
 - 3/4 inch
 - 1 inch
 - 3 inches
 - 260 Pa
12. A vent pipe is mandatory on an interceptor when such interceptor acts as a primary settling tank and discharges through a horizontal indirect waste pipe into a secondary interceptor. The secondary interceptor shall be trapped and vented.
 - True
 - False
13. Traps serving sinks that are part of bar equipment do not need to be vented when the location and construction of the bar makes venting impossible. However when such conditions exist, _____.
 - sinks shall discharge by means of approved indirect waste pipes into a floor sink or other approved type of receptor
 - sinks shall discharge by means of waste pipes into a floor sink or other approved type of receptor
 - sinks will need to use PVC pipe
 - all of the answers provided
14. Vent pipe and fittings shall be in accordance with the applicable standards.
 - True
 - False
15. No _____ shall be used underground and shall be kept at least 6 inches aboveground.
 - brass or copper pipe
 - porcelain or clay pipe
 - galvanized steel or 304 stainless steel pipe
 - schedule 40 PVC DWV pipe
16. _____ piping shall be installed in accordance with applicable standards referenced in Table 1401.1 and Chapter 15 Firestop Protection.
 - Porcelain or clay
 - Brass or copper
 - Galvanized wrought-iron or galvanized steel pipe
 - ABS and PVC DWV
17. Copper tube for _____ and vent piping shall have a weight not less than that of copper drainage tube type DWV.
 - venting
 - indirect waste
 - underground drainage
 - aboveground drainage
 - none of the answers provided
18. Copper tube for aboveground drainage and vent piping shall have a weight _____ that of copper drainage tube type DWV.
 - lighter than
 - not less than
 - heavier than
 - equal to
19. Copper tube shall not be used for chemical or _____ as defined in Section 811.0.
 - indirect waste
 - underground drainage
 - gravity drainage
 - industrial waste
20. Hard-drawn copper tubing color-coded green is _____.
 - Type K
 - Type L
 - Type M
 - Type DWV
21. Hard-drawn copper tubing color-coded blue is _____.
 - Type K
 - Type L
 - Type M
 - Type DWV
22. Hard-drawn copper tubing color-coded red is _____.
 - Type K
 - Type L
 - Type M
 - Type DWV
23. Hard-drawn copper tubing color-coded yellow is _____.
 - Type K
 - Type L
 - Type M
 - Type DWV

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24. Changes in direction of vent piping shall be made by the appropriate use of approved fittings, and no such pipe shall be strained or bent. Burred ends shall be reamed to the full bore of the pipe.
- True
 - False
25. The size of vent piping shall be determined from its length and the total number of fixture units connected to it, as set forth in _____.
- Table 810.1
 - Table 705.5
 - Table 703.2
 - Table 911.3

Quiz 6 (904.1 – 908.2.2)

1. The diameter of an individual vent shall not be less than 1-1/4 inches nor less than _____ the diameter of the drain to which it is connected.
- 1/4
 - 3/4
 - 1/2
 - equal to
2. Vent pipes from fixtures located upstream from pumps shall not be used for meeting the cross-sectional area venting requirements of this section.
- True
 - False
3. In Table 703.2, no more than 1/3 of the _____ of any minimum-sized vent shall be installed in a horizontal position.
- width
 - height
 - total permitted length
 - area
4. When a minimum-sized vent is increased _____ size for its entire length, the maximum length limitation does not apply.
- 4 pipe
 - 3 pipe
 - 2 pipe
 - 1 pipe
5. Vent and branch vent pipes shall be free from drops or sags, and each such vent shall be level or shall be graded and connected so that it drips back by gravity to the drainage pipe it serves.
- True
 - False
6. If a vent is connected to a horizontal drainage pipe, each vent pipe must have its invert taken off above the drainage centerline of such pipe downstream from the trap being served.
- True
 - False
7. Unless prohibited by structural conditions, each vent shall rise vertically to a point not less than _____ above the flood-level rim of the fixture served before offsetting horizontally.
- 2 inches
 - 4 inches
 - 6 inches
 - 8 inches
8. Whenever two or more vent pipes converge, each vent pipe shall rise to a point not less than _____ in height above the flood-level rim of the plumbing fixture it serves, before being connected to any other vent.
- 2 inches
 - 4 inches
 - 6 inches
 - 8 inches
9. Vents less than 6 inches _____ rim of the fixture shall be installed with approved drainage fittings.
- below the flood-level
 - on the flood-level
 - above the flood-level
 - none of the answers provided
10. A vent pipe extends undiminished in size above the roof and should be reconnected with a soil or waste vent of proper size.
- True
 - False
11. A vent pipe opening from a soil or waste pipe, not from a water closet, shall not be below the weir of the trap.
- True
 - False

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12. Two fixtures may be served by a common vertical pipe, when each fixture wastes separately into an approved _____ fitting having inlet openings at the same level.
- single
 - double
 - triple
 - quadruple
13. Each vent pipe or stack shall extend through its flashing and shall terminate vertically not less than 6 inches above the roof nor less than 2 feet from any vertical surface.
- True
 - False
14. Each vent shall terminate not less than 10 feet from, or at least _____ above, any operable window, or door, nor less than 3 feet in every direction from any lot line, alley, and street.
- 1 foot
 - 2 feet
 - 3 feet
 - 4 feet
15. Vent pipes shall be extended separately or combined of full required size, not less than 6 inches above the _____.
- A. floor
 - B. ground
 - C. roof
 - D. fire wall
 - E. either C or D
16. Vents within 10 feet of any part of the roof that is used for other purposes shall extend not less than _____ above the roof and shall be securely stayed.
- 3 feet
 - 5 feet
 - 6 feet
 - 7 feet
17. Vent pipes for outdoor installation shall extend at least 10 feet above the surrounding ground and shall be _____.
- placed in an accessible area
 - marked to make them more visible
 - securely supported
 - all of the answers provided
18. Joints at the roof around vent pipes must be made watertight by using approved flashings or flashing material.
- True
 - False
19. Lead bends and lead traps shall not be less than _____ wall thickness.
- 1/2 of an inch
 - 1/4 of an inch
 - 1/8 of an inch
 - 1/16 of an inch
20. Where frost or snow closure is likely to occur in locations having a minimum design temperature below 0°F, vent terminals shall be a minimum of _____ in diameter, but in no event smaller than the required vent pipe.
- 1 inch
 - 2 inches
 - 3 inches
 - 4 inches
21. The change in diameter shall be made inside the building not less than _____ below the roof in an insulated space, and shall terminate not less than 10 inches above the roof.
- 1/2 of an inch
 - 8 inches
 - 12 inches
 - 16 inches
22. Each drainage stack that extends _____ or more stories above the building drain shall be served by a parallel vent stack.
- 2
 - 5
 - 8
 - 10
 - 12
23. The yoke vent connection to the vent stack shall be placed not less than 42 inches above floor level, and the yoke vent connection to the drainage stack shall be by means of a/n _____ placed below the lowest drainage branch connection serving that floor.
- check valve
 - beehive strainer
 - air gap
 - wye-branch fitting

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24. The dry vent connection to the wet vent shall be an individual vent or common vent for the _____.
- lavatory
 - bidet
 - shower
 - bathtub
 - any of the answers provided
25. Only _____ shall discharge upstream of the dry-vented fixture drain connection.
- 1 wet-vented fixture drain or trap arm
 - 3 wet-vented fixture drains or trap arms
 - 5 wet-vented fixture drains or trap arms
 - 10 wet-vented fixture drains or trap arms
26. The wet vent shall be sized based on the fixture unit discharge into the wet vent.
- True
 - False