

# UPC Chapters 7-9 Code Questions

RV 11.05.2021

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## **Quiz 1**

1. The code that governs materials, design and installation of sanitary drainage systems and building sewers is in what chapter?
  - Chapter 1
  - Chapter 3
  - Chapter 5
  - Chapter 7
2. Galvanized steel pipe shall be kept at least \_\_\_\_\_ aboveground.
  - 5 inches
  - 6 inches
  - 7 inches
  - 8 inches
3. Plastic pipe shall be test filled with water.
  - True
  - False
4. Vitrified clay pipe or fittings shall be used aboveground or where pressurized by a pump or ejector.
  - True
  - False
5. Vitrified clay pipe shall be kept at least \_\_\_\_\_ belowground.
  - 11 inches
  - 12 inches
  - 13 inches
  - 300 inches
6. Copper or copper alloy tube for drainage and vent piping shall have a weight equal to or greater than copper or copper alloy drainage tube type \_\_\_\_\_.
  - DWV
  - PVC
  - LDS
  - all of the answers provided

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7. \_\_\_\_\_ and fittings shall not be installed underground and shall be kept at least 6 inches aboveground.
  - Stainless steel 304 pipe
  - Titanium 403 pipe
  - Vitrified clay pipe
  - Surgical tubing
8. Cast-iron soil pipe and fittings shall be marked with the country of origin, the manufacturer's name and the class of the \_\_\_\_\_ or \_\_\_\_\_.
  - couplings or pipe
  - pipe or fixture
  - pipe or fitting
  - fitting or material
9. Fittings used for drainage shall be of the drainage type, shall have a smooth interior waterway, and shall be constructed to allow \_\_\_\_\_ per foot grade.
  - ¼ inch
  - ½ inch
  - ¾ inch
  - 1 inch
10. For continuous flow into a drainage system from a pump, \_\_\_\_\_ units shall be equal to each gpm of flow.
  - 5 fixture
  - 4 fixture
  - 3 fixture
  - 2 fixture
11. The minimum size of vertical drainage piping shall be determined from the total of fixture units connected, in accordance with their \_\_\_\_\_.
  - width
  - length
  - pipe type
  - all of the answers provided
12. Threaded joints shall have thread sealant tape or compound and shall be applied only to male threads.
  - True
  - False
13. Mechanical joints between \_\_\_\_\_ and fittings shall be compression, grooved coupling, hydraulic press-connect fittings, or flanged type.
  - galvanized pipe
  - stainless steel pipe
  - clay pipe
  - copper pipe
14. Horizontal drainage lines connecting with other horizontal drainage lines can enter through 45-degree wye branches.
  - True
  - False
15. Each cleanout fitting for cast-iron pipe shall consist of a cast-iron or copper alloy body and an approved plug.
  - True
  - False
16. Plugs need to have raised \_\_\_\_\_ heads or approved countersunk rectangular slots.
  - oval
  - square
  - triangle
  - hexagonal
17. Each cleanout fitting and cleanout plug or cap must be of a/an \_\_\_\_\_ type.
  - new
  - improvised
  - approved
  - all of the answers provided
18. Cleanouts must be designed to be gastight and watertight.
  - True
  - False
19. Each horizontal drainage pipe shall be provided with a/an \_\_\_\_\_ at its upper \_\_\_\_\_, and each run of piping that is more than 100 feet in total \_\_\_\_\_, shall be provided with a cleanout each 100 feet in length of such pipe.
  - cleanout – terminal – developed length
  - cleanup – terminator – developed strength
  - outlet – pump – developed length
  - water trap – faucet – width
20. Each cleanout extension should be installed according to section 707.6.
  - Yes
  - No
  - Yes, with some exceptions
  - No, with some exceptions
21. Countersunk cleanout plugs shall be installed where raised heads cause a hazard.
  - True
  - False

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22. When practicable, all plumbing fixtures should be drained by gravity to the sewage disposal system.
- True
  - False
23. A fixture installed lower than the next upstream manhole cover should have an approved type of backwater valve.
- Yes, always
  - No, never
  - 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.
24. 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
25. 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
26. 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
27. Sumps and receiving tanks shall be watertight and shall be constructed of \_\_\_\_\_, \_\_\_\_\_ or other approved materials.
- concrete, metal
  - metal, wood
  - plastic, concrete
  - marble, metal
2. A check valve and fullway-type shutoff valve on a sump pump shall be located on the \_\_\_\_\_.
- fixture venting
  - discharge line
  - back wall
  - toilet system
3. A macerating toilet system shall be permitted as an alternate to a sewage pump system where approved by the \_\_\_\_\_.
- city
  - Authority Having Jurisdiction
  - owner
  - plumbing inspector
4. The macerating sump pump shall be vented in accordance with the \_\_\_\_\_.
- owner's approval
  - manufacturer's instructions
  - mayor's permission
  - city's instructions
5. 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
6. Bathtubs, laundries, washing machine standpipes, kitchen sinks, and dishwashers are all considered to be \_\_\_\_\_.
- suds-removing fixtures
  - normal fixtures
  - suds-producing fixtures
  - cleaning fixtures
7. 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
8. The piping of the plumbing, drainage and venting systems shall be tested with \_\_\_\_\_.
- air only
  - water only
  - air and water
  - water or air, except that plastic pipe shall not be tested with air

## Quiz 2

1. Sumps and receiving tanks shall be provided with substantial covers having a bolt-and-gasket-type manhole or equivalent opening to permit access for inspection, repairs, and cleaning.
- True
  - False

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9. During a water test, the water shall be kept in the system for at least \_\_\_\_\_ before inspection starts.
- 15 minutes
  - a half-hour
  - overnight
  - a work-week
10. Where the system is tested in sections, each section shall be filled with water, but no section shall be tested with less than a \_\_\_\_\_ foot head of water.
- 5
  - 10
  - 15
  - 20
11. 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
12. 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
13. Establishments engaged in storage, preparation, selling, serving, processing, or other handling of food and beverage shall provide indirect waste piping for refrigerators, walk-in coolers, steam tables, egg boilers, and similar equipment.
- True
  - False
14. 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 \_\_\_\_\_ in diameter.
- 4 inches
  - 3 inches
  - 2 inches
  - 1 inch
15. 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 in diameter.
- True
  - False
16. 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
17. 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
18. Cleanouts shall be provided at every \_\_\_\_\_ turn and shall be accessibly located.
- 360 degree
  - 45 degree
  - 90 degree
  - 180 degree
19. Such waste shall discharge through a/an \_\_\_\_\_ 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
20. The piping diameter 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

## Quiz 3

1. If a bar sink trap cannot be vented, the sink drain shall discharge through a/an \_\_\_\_\_ into an approved vented receptor.
- check valve
  - air gap or air break
  - approved water discharger
  - PVC pipe
2. The developed length from the fixture outlet to the receptor shall not exceed \_\_\_\_\_.
- 5 inches
  - 5 feet
  - 5 yards
  - the length of the pipe

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3. Indirect waste connections shall be provided for \_\_\_\_\_.
  - drains
  - overflows
  - water heaters
  - boilers
  - all of the answers provided
4. Stills, sterilizers, and similar equipment requiring waste connections that are used to sterilize materials shall be indirectly connected by means of a/an \_\_\_\_\_.
  - check valve
  - air gap
  - sink trap
  - one-way valve
5. 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
6. 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
7. 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
8. 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
9. Indirect waste pipes longer than 5 feet, but less than 15 feet, in length shall be directly trapped, but such traps need not be vented.
  - True
  - False
10. 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 shall in no case be less than 1/2 of an inch.
  - 5 feet
  - 10 feet
  - 15 feet
  - 20 feet
  - 30 feet
11. 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
12. 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
13. 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
14. 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
15. An indirect waste receptor can be installed in any toilet room, closet, cupboard, or storeroom.
  - True
  - False
16. Where water service connections are installed for a clothes washer, an approved method of waste disposal shall be provided.
  - True
  - False

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17. \_\_\_\_\_ shall be provided for drains, overflows, or relief vents, but no piping or equipment carrying wastes under pressure shall be directly connected to a part of the drainage system.

- drains
- Potable water lines
- Direct waste connections
- Indirect waste connections
- Pressure relief valves

18. Appliances and similar equipment requiring water and waste and used for sterile materials shall be drained through a/an \_\_\_\_\_.

- air gap
- strainer
- check valve
- indirect sewage line

19. 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

20. For undiluted condensate waste from a fuel-burning condensing appliance that 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

21. 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

22. 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

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. Steam 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

8. The top of the deep seal trap shall have a \_\_\_\_\_ opening located at the highest point of the trap.

- 1/4 inch
- 1/2 inch
- 3/4 inch
- 1 inch

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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 inches, what must the water outlet be?
- 1 inch
  - 1-1/4 inches
  - 1-1/2 inches
  - 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 inches
  - 2 inches – 1-1/2 inches
  - 2 inches – 1-3/4 inches
  - 2 inches – 2 inches
  - 3 inches – 1-1/4 inches
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 the sanitary sewer system or increase maintenance costs on it 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 alloy 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
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

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24. \_\_\_\_\_, sprinkler systems, and 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/an \_\_\_\_\_.
- indirect waste
  - direct waste
  - chemical waste
  - industrial waste
- Quiz 5**
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 inch
  - 1/8 inch
  - 1/16 inch
3. Condensate or wastewater shall not drain over a public way.
- True
  - False
4. In Table 814.3, if the size of the waste pipe is 1-1/2 inch, how much refrigeration would surface?
- 21-40 tons
  - 41-90 tons
  - 91-125 tons
  - 126-250 tons
5. In Table 814.3, 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 814.3, if any drainage or waste system is condensing about 54 tons, what would be the appropriate size of piping?
- 3/4 inch
  - 1 inch
  - 1-1/4 inches
  - 2 inches
7. In Table 814.3, if any drainage or waste system is condensing about 126 tons, what would be the appropriate size of piping?
- 3/4 inch
  - 1 inch
  - 1-1/4 inches
  - 2 inches
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/an \_\_\_\_\_ 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
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



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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. Copper alloy tube for \_\_\_\_\_ and vent piping shall have a weight not less than that of copper alloy drainage tube type DWV.
- venting
  - indirect waste
  - underground drainage
  - aboveground drainage
  - none of the answers provided
17. Copper alloy tube for aboveground drainage and vent piping shall have a weight \_\_\_\_\_ that of copper alloy drainage tube type DWV.
- lighter than
  - not less than
  - heavier than
  - equal to
18. Copper alloy tube shall not be used for chemical or \_\_\_\_\_ as defined in Section 811.0.
- indirect waste
  - underground drainage
  - gravity drainage
  - industrial waste
19. Hard-drawn copper tubing color-coded green is \_\_\_\_\_.
- Type K
  - Type L
  - Type M
  - Type DWV
20. Hard-drawn copper tubing color-coded blue is \_\_\_\_\_.
- Type K
  - Type L
  - Type M
  - Type DWV
21. Hard-drawn copper tubing color-coded red is \_\_\_\_\_.
- Type K
  - Type L
  - Type M
  - Type DWV
22. Hard-drawn copper tubing color-coded yellow is \_\_\_\_\_.
- Type K
  - Type L
  - Type M
  - Type DWV
23. 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
24. 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

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
  - or equal to

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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(s) 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
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, an openable window, or door, nor less than 3 feet in every direction from any lot line.
  - 1 foot
  - 2 feet
  - 3 feet
  - 4 feet
15. Vent pipes shall be extended separately or combined not less than 6 inches above the \_\_\_\_\_.
  - A. floor
  - B. ground
  - C. roof
  - D. fire wall
  - E. either C or D

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16. Vents within 10 feet of any part of the roof that is used for assembly 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 inch
  - 1/4 inch
  - 1/8 inch
  - 1/16 inch
20. Vent terminals shall be a minimum of \_\_\_\_\_ in diameter, but in no event smaller than the required vent pipe where frost or snow closure is likely to occur in locations having a minimum design temperature below 0°F.
- 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 inch
  - 8 inches
  - 12 inches
  - 16 inches
22. Each drainage stack that extends \_\_\_\_\_ or more stories 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/an \_\_\_\_\_ placed below the lowest drainage branch connection serving that floor.
- check valve
  - beehive strainer
  - air gap
  - wye-branch fitting
24. No wet vent shall exceed \_\_\_\_\_ feet in developed length.
- 2
  - 4
  - 6
  - 8
25. The dry vent connection to the wet vent shall be an individual vent for a \_\_\_\_\_.
- bidet
  - shower
  - bathtub
  - any of the answers provided
26. 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
27. The wet vent shall be sized based on the fixture unit discharge into the wet vent.
- True
  - False