Quiz 1

1. What would NOT be a good material for a bathtub?
   - Plastic
   - Stainless steel
   - Ceramic
   - Wood

2. Plumbing fixtures shall be installed in a manner that afford, easy access for repairs. What example below would NOT be following this code:
   - Drain pipes under kitchen sink
   - Shower head up on wall
   - Drain pipes under lavatory sink
   - Toilet tank under counter

3. A watertight seal (caulking) is not needed for a fixture hung on a wall.
   - True
   - False

4. Screws for securing closet flanges shall be _______.
   - copper alloy
   - aluminum
   - galvanized steel
   - iron

5. Wall-mounted water closet fixtures shall be securely bolted with _______.
   - lots of caulking
   - Plumber's tape
   - an approved carrier fitting
   - a special ceramic cement

6. Metal carrier units for toilets shall be firmly connected to the _______.
   - drain pipes
   - water supply
   - wood framing
   - counter over toilet tank
7. The distance X shall be not less than ______ inches.
   - 24
   - 15
   - 12
   - 30

8. The distance Y shall be not less than ______ inches.
   - 24
   - 15
   - 12
   - 30

9. The clear space in front of a water closet, lavatory or bidet shall not be less than ______ inches.
   - 30
   - 26
   - 21
   - 24

10. Distance X shall be no less than ______ inches.
    - 15
    - 20
    - 24
    - 12

11. Distance Y shall be no less than ______ inches.
    - 20
    - 24
    - 12
    - 15

12. Most gaskets will work with any wall hung urinals or wall hung toilets.
    - True
    - False

13. Closet rings (closet flanges) shall be of an approved type. Which of the following is an approved type?
    - PVC
    - ABS
    - cast-iron
    - copper alloy
    - all of the answers provided
14. Caulked-on closet rings shall not be less than 1/4-inch-thick and not less than ______ inches in overall depth.
   - 2
   - 3
   - 4
   - 5

15. Closet flanges shall be securely fastened with ______ to the floor. These fasteners shall be copper alloy, copper, or other listed, equally corrosion-resistant material.
   - bolts
   - washers
   - screws
   - any of the answers provided

16. Back-outlet water closet bowls shall be bolted to both the wall and floor.
   - True
   - False

17. Where floor-mounted back-outlet water closets are used, the soil pipe shall be no less than ______ inches in diameter.
   - 6
   - 4
   - 3
   - 2-1/2

18. Where floor-mounted back-outlet water closets are used, the above shown closet flange is an approved fitting.
   - True
   - False

19. The critical level on any flush valve vacuum breaker needs a ______ inch clearance to function properly.
   - 12
   - 7
   - 5
   - 6

20. Fixtures having concealed slip joint connections shall be provided with ______.
   - a ladder and a light fixture
   - brass fittings
   - rubber gaskets
   - a utility space or access panel

**Quiz 2**

1. The overflow pipe from a fixture shall be connected on the ______.
   - sewer or outlet side of the fixture trap
   - downstream side of the fixture tee
   - house or inlet side of the fixture trap
   - upstream side of the fixture tee

2. Water closets which are not thoroughly washed at each discharge are ______.
   - easier to clean
   - approved
   - prohibited
   - considered to be high-efficiency toilets

3. Trough urinals shall be ______.
   - permissible if constructed of concrete
   - required in large buildings
   - prohibited
   - allowed at stadiums

4. No dry or chemical closet (toilet) shall be installed in a building used for human habitation, unless first approved by the ______.
   - plumbing inspector
   - general contractor
   - plumbing foreman
   - Health Officer

5. Baptisteries requiring water, waste connections, or both shall be submitted for approval to the ______ prior to installation.
   - plumbing inspector
   - health officer
   - general contractor
   - Authority Having Jurisdiction

6. Something that is most likely not made of a zinc alloy component is a ______.
   - faucet
   - toilet
   - ball valve
   - shower valve
7. The maximum water flow rate of faucets is often controlled by ______.
   • angle stops closed part way
   • reducing the flow at the building valve
   • a pressure reducing valve
   • an aerator

8. The maximum flow rate for a public lavatory faucet shall not exceed ______.
   • 5 gpm at 60 psi
   • 2.5 gpm at 60 psi
   • .02 gpm at 60 psi
   • 0.5 gpm at 60 psi

9. The maximum flow rate for a private lavatory faucet shall not exceed ______.
   • 5 gpm at 60 psi
   • 2.2 gpm at 60 psi
   • .02 gpm at 60 psi
   • 0.5 gpm at 60 psi

10. Metering faucets shall deliver a maximum of ______ per metering cycle.
    • 2.5 gallons
    • 0.25 gallons
    • 2 gallons
    • .5 gallons

11. Hot water delivered from public-use lavatories shall be limited to a maximum temperature of ______.
    • 110°F
    • 130°F
    • 125°F
    • 120°F

12. The water heater thermostat shall be considered a control for meeting the provision above.
    • True
    • False

13. Lavatories shall have a waste outlet and fixture tailpiece not less than ______ inches in diameter.
    • 1 ½
    • 2
    • 2 ½
    • 1 ¼

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**Quiz 3**

1. Showerheads shall have a maximum flow rate of not more than ______.
   • 3.5 gpm at 80 psi
   • 2.5 gpm at 80 psi
   • 2 gpm at 80 psi
   • 3.5 gpm at 80 psi

2. Showers and tub-shower combinations shall be provided with individual control valves of the ______ type.
   • pressure balance
   • thermostatic
   • combination thermostatic/pressure balance
   • any of the answers provided

3. A gang shower with maximum water temperature of 120°F shall be controlled by a ______.
   • pressure balance valve
   • gate valve
   • metered valve
   • mixing valve

4. At a water temperature of 130°F, how long would it take for an adult to suffer 2nd and/or 3rd degree burns?
   • 5 min
   • 30 seconds
   • 5 seconds
   • 1.5 seconds

5. Showers shall have a waste outlet and fixture tailpiece not less than ______ inches in diameter.
   • 3
   • 4
   • 2
   • 1-1/2

6. Strainers serving shower drains shall have waterways at least equivalent to the area of the ______.
   • building drain
   • vent
   • shower head
   • tailpiece
7. Where a shower receptor has a finished dam, curb, or threshold it shall be not less than ______ lower than the sides and back of such receptor.
   - 2 inches
   - ½ inch
   - 1 inch
   - 2.5 inches

8. In no case shall a dam or threshold be less than ______ inches in depth where measured from the top of the dam.
   - 3
   - 2.5
   - 2
   - 1.5

9. The distance X is restricted to ______.
   - 2 inches minimum or 9 inches maximum
   - 1 inch minimum or 7 inches maximum
   - 2 inches minimum or 5 inches maximum
   - 1.5 inches minimum or 4 inches maximum

10. The finished floor of the receptor shall slope uniformly from the sides towards the drain at an angle of not less than ______ inch per foot.
    - 1/8
    - 1/4
    - 1
    - 1/2

11. The finished floor of the receptor shall slope uniformly from the sides towards the drain at an angle of not more than ______ inch per foot.
    - 1/8
    - 1/4
    - 1
    - 1/2

12. Shower doors shall open so as to maintain not less than a ______ unobstructed opening for egress.
    - 24 inch
    - 26 inch
    - 3 feet
    - 22 inch

13. Shower compartments, regardless of shape, shall have a minimum finished interior of ______ square inches.
    - 2000
    - 1000
    - 2424
    - 1024

14. The area and dimensions shall be maintained to a point of not less than ______ inches above the shower drain outlet.
    - 1000 inches
    - 200 inches
    - 70 inches
    - 30 inches

15. Fold-down seats in an accessible shower stall shall protrude into a ______ inch circle.
    - 1000 inch
    - 200 inch
    - 70 inch
    - 30 inch

16. The minimum required area and dimensions shall not apply for a shower receptor having overall dimensions of not less than ______ inches in width and ______ inches in length.
    - 24 – 30
    - 40 – 60
    - 30 – 50
    - 30 – 60

17. The curb or threshold may be eliminated ______.
    - for gang showers
    - in hospitals only
    - in residential installations
    - when complying with ICC A117.1 accessibility standards
18. Shower receptors shall have the subfloor and rough side of walls at a height of not less than ______ above the threshold or dam.
- 6 inches
- 3 inches
- 5 inches
- 2 inches

19. Lining materials shall be pitched ______ per foot to weep holes in the sub drain of a smooth and solidly formed subbase.
- 1/2 inch
- 1/4 inch
- 1/8 inch
- 1/3 inch

20. Shower pan lining may be constructed of ______.
- 26 B&S gauge copper
- 3 lbs. per square foot lead
- 15 lbs. asphalt felt
- zinc coated steel

21. The lead sheet or copper sheet shall be insulated from conducting substances, other than the connecting drain, by ______ or an equivalent.
- wood
- plastic sheeting
- cement
- 15-pound asphalt felt

22. Sheet copper shall be joined by ______.
- wiping joints
- burned joints
- brazing or soldering joints
- copper cement joints

23. Lining material must be at least ______ above dam or threshold.
- 2 inches
- 3 inches
- 1 inch
- 4 inches

24. A water supply riser from the shower valve to the showerhead outlet, whether exposed or not, shall be ______.
- long enough to reach the head
- long enough to reach the back
- securely attached to the structure
- short enough not to touch the floor

**Quiz 4**

1. Bathtubs and whirlpool bathtubs shall have a waste outlet and fixture tailpiece not less than ______ in diameter.
- 2 inches
- 3 inches
- 1 ¼ inches
- 1 ½ inches

2. The water supply to a bathtub and whirlpool bathtub filler valve shall be protected by a/n ______ or in accordance with Section 417.0.
- air break
- air gap
- reduced pressure valve
- all of the answers provided

3. Whirlpool pump access located in the crawl space shall be located not more than ______ from an access door, trap door, or crawl hole.
- 10 yards
- 25 feet
- 48 inches
- 20 feet

4. The circulation pump shall be located above the ______.
- crown weir of the trap
- overflow pipe connection
- inlet side of trap
- vent connection

5. A bidet needs a/n ______ for backflow protection.
- spill-resistant pressure vacuum valve (SVB)
- pressure vacuum breaker backflow prevention valve (PVB)
- atmospheric vacuum valve (AVB)
- air gap
- any of the answers provided

6. The maximum hot water temperature discharging from a bidet shall be limited to ______.
- 120°F
- 100°F
- 125°F
- 110°F
7. Water closet bowls for public use shall be of the ______ type.
   • white ceramic
   • stainless steel
   • comfort height
   • elongated

8. In nurseries, schools, and similar places where plumbing fixtures are provided for the use of children less than 6 years of age, water closets shall be ______.
   • provided with the approved stool for access
   • of a size and height suitable for children's use
   • decorated to encourage children's use
   • ceramic white for easy cleaning

9. Water closets shall have a maximum consumption not to exceed ______ of water per flush.
   • 1.28 gallons
   • 1.6 gallons
   • 2 gallons
   • 1 gallon

10. Flushometer valve activated water closets shall have a maximum flush volume of ______ of water per flush.
    • 1.28 gallons
    • 1 gallon
    • 2 gallons
    • 1.6 gallons

11. Seats, for public use shall be of the elongated type and shall be either the open front type or ______.
    • round front type
    • white plastic type
    • an automatic seat cover dispenser
    • closed front type

12. Urinals shall have an average water consumption not to exceed ______ of water per flush.
    • 1.28 gallons
    • 1 gallon
    • 1.6 gallons
    • 2 gallons

13. At least one water supplied fixture shall be installed upstream of a ______ to facilitate drain line flow and rinsing.
    • toilet
    • floor drain
    • floor sink
    • nonwater urinal

Quiz 5
1. No manually controlled flushometer valve shall be used to flush more than one urinal.
   • True
   • False

2. Flushometers shall be installed so that they are accessible for repair.
   • True
   • False

3. The ballcock shall be installed with the critical level not less than ______ above the full opening of the overflow pipe.
   • 1 inch
   • 0.5 inches
   • 2 inches
   • 1.5 inches

4. Overflow shall be big enough to handle the amount of water that the fill valve can supply without ______ the tank.
   • getting in the way of
   • breaking
   • causing excess noise in
   • flooding

5. Domestic dishwashing machines shall discharge indirectly through a/n ______.
   • trap
   • overflow pipe
   • air gap fitting
   • looped dishwasher hose
6. The above drawing shows an approved way to drain a dishwasher.
   • True
   • False

7. Drinking fountain faucets shall be ______.
   • automatic
   • chrome plated
   • recessed
   • self-closing

8. Where food is consumed indoors, water stations shall be substituted for drinking fountains.
   • True
   • False

9. Bottle filling stations shall be substituted for drinking fountains up to ______ percent.
   • 30
   • 25
   • 50
   • 40

10. Drinking fountains shall not be installed in ______.
    • kitchens
    • closets
    • toilet rooms
    • backyards

11. The path of travel shall be free of obstructions and shall be clearly identified with signage, for a/n ______.
    • emergency eyewash
    • public toilet
    • emergency shower
    • Both A and C

12. Where two separate handles control the hot and cold water, the right-hand control of the faucet where facing the fixture fitting outlet shall control the hot water.
    • True
    • False

13. Faucets and diverters shall be connected to the water distribution system so that hot water corresponds to the ______ of the fixture fitting.
    • right side
    • middle
    • top
    • left side

14. Floor drains shall be considered plumbing fixtures, and each such drain shall be provided with an approved-type ______.
    • drum trap
    • overflow
    • strainer
    • plug

15. Floor drains shall be installed in the following areas:
    • boiler rooms
    • residential bathrooms
    • bus stations
    • residential kitchens

16. Floors shall be sloped to floor drains.
    • True
    • False
1. The connection of the dishwasher drain directly to the continuous waste, as indicated by the arrow, is ______.
   - a code violation
   - a good practice
   - not a code violation
   - a cross-connection

2. The above fitting may be used for dishwasher drain connection if there is no ______.
   - trap
   - hot water
   - floor drain
   - disposal

3. Sink faucets shall have a maximum flow rate of not more than ______ at 60 psi.
   - 3 gpm
   - 2.2 gpm
   - 1.28 gpm
   - 2 gpm

4. Commercial food service pre-rinse spray valves shall have a maximum flow rate of ______ at 60 psi.
   - 1.6 gpm
   - 2 gpm
   - 1.28 gpm
   - 2.2 gpm

5. Kitchen and laundry sinks shall have a waste outlet and fixture tailpiece not less than ______ inches in diameter.
   - 2
   - 1-1/4
   - 2
   - 1-1/2

6. Service sinks shall have a waste outlet and fixture tailpiece not less than ______ inches in diameter.
   - 2
   - 3
   - 1-1/2
   - 1-1/4

7. The waste outlet of a floor sink shall be provided with an approved ______ or ______ that is removable and accessible.
   - trap – trap arm
   - trap – vent
   - cleanout – plug
   - strainer – grate

8. Where applying the fixture ratios in Table 422.1 results in fractional numbers, such numbers shall be rounded to the ______.
   - next lowest number
   - next highest number
   - next whole number
   - not rounded just discarded

9. Separate toilet facilities shall be provided for each sex. One exception would be ______ installations.
   - hotel lobby
   - strip mall
   - residential
   - sky resort
10. Where a separate toilet facility is required for each sex, and each toilet facility is required to have only one water closet, ______ family or assisted-use toilet facilities shall be permitted in place of the required separate toilet facilities.
   • 2
   • 3
   • 1
   • 4

11. Required toilet facilities for employees and customers located in shopping malls or centers shall be permitted to be met ______ accessible to several stores.
   • if in front and back of store and
   • if 5 toilets are
   • if 3 gender restrooms are
   • by providing a centrally located toilet facility

12. The maximum travel distance from entry to any store to the toilet facility shall not exceed ______.
   • 200 feet
   • 300 feet
   • 500 feet
   • 100 feet

13. In multi-story buildings, accessibility to the required toilet facilities shall not exceed two vertical stories.
   • True
   • False

14. Access to the required toilet facilities for customers shall not pass through areas designated as for ______.
   • kitchen staff use only
   • shop crew use only
   • employee use only
   • all of the answers provided