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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 in dwelling units and sleeping units shall be not less than ______ inches of clear space in front of toilet.
   - 30
   - 26
   - 21
   - 24

10. The clear space in front of a water closet, lavatory or bidet in other than dwelling units and sleeping units shall not be less than ______ inches in diameter.
    - 30
    - 26
    - 21
    - 24

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

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

13. Most gaskets will work with a wall hung urinals or wall hung toilets.
    - True
    - False

14. 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
15. Caulked-on closet rings shall not be less than ¼ inch thick and not less than ______ inches in overall depth.
   • 2
   • 3
   • 4
   • 5

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

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

18. 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

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

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

21. 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. Water supply and drain pipes under accessible lavatories and sinks shall be ______.
   • painted white
   • fitted with brass fittings
   • insulated (protected from contact)
   • chrome plated

2. 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

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

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

5. 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

6. For Washington State, a toilet shall not be installed if it doesn’t meet the standards for toilets required by Chapter 4 of the UPC.
   • True
   • False
7. 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

8. Something that is most likely not made of a zinc alloy component is a ______.
   • faucet
   • toilet
   • ball valve
   • shower valve

9. 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

10. The maximum flow rate for a public lavatory faucet shall not exceed ______.
    • 5 gpm / 19 lpm
    • 2.5 gpm / 9.5 lpm
    • .02 gpm / 1 lpm
    • 0.5 gpm / 1.9 lpm

11. The maximum flow rate for a private lavatory faucet shall not exceed ______.
    • 5 gpm / 19 lpm
    • 2.5 gpm / 9.5 lpm
    • .02 gpm / 1 lpm
    • 0.5 gpm / 1.9 lpm

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

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

14. The thermostatic valve shall be considered a control for meeting the above provision.
    • True
    • False

15. Self-closing or metering faucets shall be installed on lavatories intended for use by the general public except:
    • A. use by persons with disabilities.
    • B. use as guest lavatories.
    • C. use by day care centers with children under 6 years old.
    • E. Both A and C

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

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. The exception to showerheads having a maximum flow rate is ______.
   • water fall showers
   • emergency showers
   • steam showers
   • hospital showers

3. 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

4. A gang shower with maximum water temperature of 120°F shall be controlled by a ______.
   • pressure balance valve
   • gate valve
   • metered valve
   • mixing valve
5. 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

6. In a residential dwelling unit where a 2-inch waste is not readily available, the tailpiece may be 1-1/2 inches when an existing tub is being replaced by a shower sized per Section 408.6(2). This only applies where one shower head rated at ______ is installed.
   - 2.35 gpm
   - 2.8 gpm
   - 2.5 gpm
   - 2.2 gpm

7. Strainers serving shower drains shall have waterways at least equivalent to the area of the ______.
   - building drain
   - vent
   - shower head
   - tailpiece

8. 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

9. 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

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

11. 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

12. 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

13. Shower doors shall open so as to maintain not less than a ______ unobstructed opening for egress.
    - 24 inch
    - 26 inch
    - 3 feet
    - 22 inch
14. Shower compartments, regardless of shape, shall have a minimum finished interior of ______ square inches.
   • 2000
   • 1000
   • 2424
   • 900

15. 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

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

17. 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

18. The curb or threshold may be eliminated ______.
   • for gang showers
   • in hospitals only
   • in residential installations
   • when complying with ICC A117.1 accessibility standards

19. 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

20. 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

21. 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

22. 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

23. Sheet copper shall be joined by ______.
   • wiping joints
   • burned joints
   • brazing or soldering joints
   • copper cement joints

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

25. Shower receptors shall be tested for water tightness by filling with water to the level of the rough ______.
   • threshold
   • dam
   • liner

26. 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
2015 UPC Chapter 4 Fixtures & Fittings

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 maximum hot water temperature discharging from a bathtub and whirlpool bathtub spout shall be limited to ______.
   - 120°F
   - 100°F
   - 125°F
   - 110°F

3. The water heater thermostat shall be considered a control for meeting this provision.
   - True
   - False

4. 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

5. 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

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

7. 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

8. The maximum hot water temperature discharging from a bidet shall be limited to ______.
   - 120°F
   - 100°F
   - 125°F
   - 110°F

9. Water closet bowls for public use shall be of the ______ type.
   - white ceramic
   - stainless steel
   - comfort height
   - elongated

10. 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

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

12. No water closet that operates on a continuous flow or continuous flush basis shall be permitted.
    - True
    - False
13. 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

14. 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

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

16. No urinal that operates on a continuous flow or continuous flush basis shall be permitted.
   - True
   - False

17. 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. Drinking fountains shall not be installed in ______.
   - kitchens
   - closets
   - toilet rooms
   - backyards
9. 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

10. 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

11. 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

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

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

14. Floors shall be sloped to floor drains.
   • True
   • False

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Quiz 6

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.
   - 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