

## 2006 UPC Chapter 7, 8, 9,

### A NON- Illustrated Course

1. **Download Quizzes** – Open – Print
2. **Download and Print** provided code material.
3. **Study code material**, circle correct answers on the printed quizzes.
4. **Login** to your account using your ID and password.
5. **Status** page for your account appears. **Click on link** : **“Click here to start this course.”**



6. Click on the course pages to advance to the first quiz.
7. Refer to your printed quizzes to find the correct answers to each of the on-line quiz questions.

You will notice that the questions are exactly the same as your printed ones.

This is just like an open book test.

### Quiz 1.

Question 1: Galvanized steel pipe shall be kept at least \_\_\_\_\_ inches aboveground

- 6 inches
- 7 inches
- 5 inches

Question 2: Vitrified clay pipe can fittings shall be used aboveground or can be pressurized by a pump or ejector.

- True
- False

Question 3: Vitrified clay pipe shall be kept at least \_\_\_\_\_ inches below ground.

- 11
- 12
- 13
- 300

Question 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 above

Question 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

Question 6: 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 above

Question 7: For continuous flow into a drainage system from a pump, \_\_\_\_\_ fixture units shall be allowed for each gallon per minute of flow.

- 5
- 4

3  
2

Question 8: Connecting horizontal drainage lines can enter through 45-degree wye branches.  
True  
False

Question 9: Each cleanout fitting for cast-iron pipe shall consist of a cast-iron or brass body and an approved plug.  
True  
False

Question 10: Plugs need to have raised \_\_\_\_ heads or approved countersunk rectangular slots.  
Oval  
Square  
Triangle  
Hexagonal

Question 11: Each cleanout fitting and cleanout plug or cap must be of a(n) \_\_\_\_ type.  
new  
improvised  
approved  
All of the above

Question 12: Cleanouts must be designed to be gas and watertight.  
True  
False

Question 13: Each horizontal drainage pipe shall be provided with a(n) \_\_\_\_\_ at its upper \_\_\_\_\_. Each run of piping, more than one hundred feet in total \_\_\_\_\_, shall be provided with a cleanout every hundred feet, or fraction thereof.  
Cleanout, terminal, developed length,  
Cleanup, terminator, developer strength,  
Outlet, pump, developed length :or  
Water trap, faucet, width,

Question 14: There must be an additional cleanout in a drainage line for each aggregate horizontal change of direction exceeding 135 degrees.  
True  
False

Question 15: Each cleanout should be installed according to section 707.6  
yes  
no  
mostly yes with some exceptions  
mostly no with some exceptions

Question 16: When practicable, all plumbing fixtures should be drained by gravity to the sewage disposal system.  
True  
False

Question 17: A fixture installed lower than the next upstream manhole cover should have an approved type of backwater valve.  
Always Yes  
Always No  
Yes, if the manhole cover of the public or private sewer is serving such drainage piping.  
No, if the manhole cover of the public or private sewer is serving such drainage piping.

Question 18: A sewage ejector or sewage pump receiving the discharge of water closets needs to have a minimum discharge capacity of at least \_\_\_\_\_ gallons per minute.  
15  
20  
25  
30

Question 19: The discharge line from an ejector pump shall be provided with an accessible \_\_\_\_\_.  
backwater valve  
swing check valve and gate  
ball valve  
any of the above

Question 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

Question 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

Question 22: Bathtubs, laundries, washing machine standpipes and dishwashers are all considered to be \_\_\_\_\_  
suds-removing fixtures  
normal fixtures  
suds-producing fixtures

Question 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

Question 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.

Question 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

Question 26: 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

Question 27: 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

## Quiz 2:

Question 1: 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 side walk
- All of the above

Question 2: 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

Question 3: \_\_\_\_\_ may be issued for the installation of a private sewage disposal system, or part thereof, on any lot connected with a public sewer.

- A citation
- A permit
- No permit
- No citation

Question 4: Cesspools, septic tanks, seepage pits, or drain fields shall \_\_\_\_\_

- Be connected to any public sewer or to any building sewer lead in to a public sewer.
- Be removed for health reasons
- Be left alone
- Have extra approved check valves installed

Question 5: All pipe, brick, block, \_\_\_\_\_, or other parts in the installation of building sewers or

private sewage disposal systems shall conform to the approval requirements of chapter 3 of this code.

- Prefabricated septic tanks
- Seepage pit covers
- All of the above

Question 6: Building sewers shall be run in practical alignment and at a uniform slope of not less than  $\frac{1}{4}$  of an inch per \_\_\_\_\_ towards the point of disposal.

- yard
- foot
- meter
- inch

Question 7: There are no exceptions to 718.1

- True
- False

Question 8: Building sewer piping shall be laid on a firm bed throughout\_\_\_\_\_

- its entire length
- the building
- class 2 fire hazard areas
- its width

Question 9: No sewer constructed of materials other than those approved for use under or within a building, shall be installed under or within \_\_\_ foot/ feet of any building or structure, nor less than \_\_\_ foot/feet below the surface of the ground

- 2,1
- 1, 2
- 3, 4
- 4, 3

Question 10: 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\_\_\_\_\_.

- to the street
- to a public sewer
- extended to grade
- extended to the level

Question 11: 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

Question 12: 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

Question 13: Cleanouts installed under concrete or asphalt paving shall be made accessible by\_\_\_\_\_.

yard boxes  
drilling holes in the concrete or asphalt  
installing a man hole

Question 14: The maximum distance between manholes shall exceed \_\_\_\_.

- 300 inches
- 300 feet
- 300 yards
- all of the above

Question 15: Every abandoned building sewer should be plugged or capped in an approved manner within 5 feet of the property line.

- True
- False

Question 16: 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

Question 17: 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 \_\_\_\_ within 30 days

- the federal government
- the state government
- the city
- the Authority Having Jurisdiction

### Quiz 3

Question 1: 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

Question 2: For a food processing establishment that has refrigeration and other food handling equipment, the Uniform Plumbing Code requires \_\_\_\_ indirect waste piping for the equipment listed above

- employee facilities
- a safe work environment
- All of the above

Question 3: 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 smaller than \_\_\_\_.

- 4 inches
- 3 inches
- 2 inches
- 1 inch

Question 4: 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 inch.

- True
- False

Question 5: Walk-in cooler floor drains shall be connected to a \_\_\_\_ discharging into an outside receptor.

- Gate and ball valve
- Separate drainage line
- Main line
- All of the above

Question 6: 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

Question 7: Cleanouts shall be provided at every \_\_\_\_ degree turn and shall be accessibly located.

- 360
- 45
- 90
- 180

Question 8: Where the sink in a bar is located so that the trap serving the sink cannot be vented, the sink drain shall discharge through \_\_\_\_ into an approved , vented receptor.

- a check valve
- an airgap or airbreak
- an approved water discharger
- a PVC pipe

Question 9: The developed length from the fixture outlet to the receptor shall not exceed \_\_\_\_.

- 5 inches
- 5 feet
- 5 yards
- the length of the pipe

Question 10: Stills, sterilizers, and similar equipment requiring waste connections and used to sterilize materials shall be indirectly connected by means of \_\_\_\_.

- a check valve
- an airgap
- a sink trap
- a one- way valve

Question 11: Each indirect waste pipe shall be separately piped to the receptor and shall not exceed 15 feet. Such receptors shall be located \_\_\_\_.

- within 15 ft of the fixture
- in the same building
- in a visible location
- in the same room

Question 12: Appliances or apparatus not regularly classed as plumbing fixtures, but which have drip or

drainage outlets may be drained by indirect waste pipes discharging into an open receptor through either \_\_\_\_.

an airgap or airbreak

A one way valve or a check valve

PVC or galvanized pipe

all of the above

Question 13: 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

Question 14: Indirect waste pipes exceeding five feet, but not less than 15 feet in length shall be directly trapped, but such traps need not be vented.

True

False

Question 15: Indirect waste pipes less than \_\_\_\_ feet in length shall not be 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 inch in size.

5

10

15

20

Question 16: Angles and changes of direction in indirect waste pipes shall be provided with \_\_\_\_ as to permit flushing and cleaning.

cleanouts

check valves

airgaps

none of the above

Question 17: All plumbing fixtures or other receptors receiving the discharge \_\_\_\_\_ shall be approved for the use proposed and shall be of such shape and capacity as to prevent splashing or flooding.

Of drainage lines

Of indirect waste pipes

Of gases and liquids

Direct waste pipes

Question 18: No standpipe receptor for any clothes washer shall extend more than 30 inches, nor less than \_\_\_\_ inches above its trap.

12

18

24

30

Question 19: No trap for any clothes washer standpipe receptor shall be installed below the floor, but shall be roughed in not less than \_\_\_\_ inches and not more than 18 inches above the floor

5

6

7

8

Question 20: An indirect waste receptor can be installed in any toilet room, closet, cupboard, or storeroom.

True

False

Question 21: Appliances and similar equipment requiring water and waste and used to sterilize materials shall be drained through \_\_\_\_

an airgap

a strainer

a check valve

an indirect sewage line

Question 22: Appliances, devices, equipment, or other apparatus not regularly classed as plumbing fixtures, which are equipped with pumps, drips, or drainage outlets, may be \_\_\_\_ by indirect waste pipes discharging into an approved type of open receptor connected

drained

attached

emptied

Question 23: When undiluted condensate waste from a condensing furnace is discharged into the drainage system, the material in the drainage system shall be \_\_\_\_.

pottery, ceramic or porcelain,

iron, galvanized iron or plastic

copper, brass or bronze

none of the above

Question 24: A domestic dishwashing machine should not directly connect to a food waste disposer without an approved dishwasher airgap fitting on the discharge side of the dishwashing machine

True

False

Question 25: A drinking fountain may be installed with indirect wastes.

True

False

Question 26: A steam pipe may be directly connected to any part of a plumbing or drainage system.

True

False

Question 27: Water above 140°F may be discharged under pressure into any part of a drainage system.

True

False

Question 28: Intercepting tanks constructed of concrete shall have walls and bottom not less than \_\_\_\_\_ in thickness.

- 2 inches
- 3 inches
- 4 inches
- 5 inches

Question 29: 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

Question 30: Sumps or condensers shall be provided with suitable means of access for \_\_\_\_\_.

- servicing
- flushing
- cleaning
- greasing

Question 31: 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

Question 32: Chemical or industrial liquid wastes that are likely to damage or increase maintenance costs on the sanitary sewer system shall be \_\_\_\_\_.

- ignored
- stained with a die, so they can be sorted to the right disposal facility.
- pretreated to render them innocuous prior to discharge into a drainage system.
- taken out of the system and brought to a storage facility.

Question 33: Copper tube may be used for chemical or industrial wastes.

- True
- False

Question 34: The owner should maintain a permanent record of the locations of all piping and venting carrying \_\_\_\_\_

- indirect waste
- normal waste
- chemical waste
- water

Question 35: A chemical vent can intersect vents for other services \_\_\_\_\_.

- when it is the shortest route
- when galvanized iron is used
- when PVC is used
- never

Question 36: 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

Question 37: Air conditioner condensate waste can drain over a public way.

- True
- False

#### Quiz 4:

Question 1: Is a vent pipe 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 second interceptor shall \_\_\_\_\_.

- Yes
- No

Question 2: Traps serving sinks that are part of bar equipment of bars need not to be vented when the location and construction of such bars is such as to make venting impossible. However when such conditions exist \_\_\_\_\_.

- said sinks shall discharge by means of approved indirect waste pipes into a floor sink or other approved type of receptor
- said sinks shall discharge by means of waste pipes into a floor sink or other approved type of receptor
- said sinks will need to use PVC pipe
- all of the above

Question 3: Iron, copper, brass, and porcelain can all be used as a vent pipes

- True
- False

Question 4: No \_\_\_\_\_ shall be used underground and shall be kept at least 6 inches aboveground

- brass or copper pipe
- porcelain or clay pipe
- galvanized wrought-iron or galvanized steel pipe
- Schedule 40 PVC DWV pipe

Question 5: \_\_\_\_\_ piping installations shall be installed in accordance with IS 5, IS 9, and chapter 15

- Porcelain or clay
- Brass or copper
- Galvanized wrought-iron or galvanized steel pipe
- ABS and PVC DWV

Question 6: Copper tube for \_\_\_\_\_ and vent piping shall have a weight not less than that of copper drainage tube DWV.

- a. venting

- b. indirect waste
- c. underground drainage
- d. above ground drainage
- c and d

Question 7: Copper tube shall not be used for chemical or \_\_\_\_\_ as defined in Section 811.0.  
 indirect waste  
 underground drainage  
 gravity drainage  
 industrial waste

Question 8: Hard-drawn copper tubing color-coded green is \_\_\_\_\_.  
 Type K  
 Type L  
 Type M  
 Type DWV

Question 9: Hard-drawn copper tubing color-coded blue is \_\_\_\_\_.  
 Type K  
 Type L  
 Type M  
 Type DWV

Question 10: Hard-drawn copper tubing color-coded red is \_\_\_\_\_.  
 Type K  
 Type L  
 Type M  
 Type DWV

Question 11: Hard-drawn copper tubing color-coded yellow is \_\_\_\_\_.  
 Type K  
 Type L  
 Type M  
 Type DWV

Question 12: Cast iron, galvanized malleable iron or galvanized steel, copper, brass, ABS, PVC, stainless steel 304 or 316L, can all be \_\_\_\_\_.  
 used underground  
 vent fittings  
 soldered  
 None of the above

Question 13: Stainless steel 304 pipe and fittings shall not be installed underground and shall be kept at least \_\_\_\_\_ aboveground.  
 5 inches  
 4 inches  
 6 inches  
 7 inches

Question 14: Changes in direction of vent piping shall be made by appropriate use of approved fittings, and pipe is allowed to be strained or bent.  
 True  
 False

Question 15: Per Table 7-5, 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

Question 16: When a minimum-sized vent is increased \_\_\_\_\_ the pipe size for its entire length, the maximum length limitation does not apply.  
 4 times  
 3 times  
 2 times  
 1 time

Question 17: A vent is connected to a horizontal drainage pipe. Each vent pipe has to have its invert taken off above the drainage centerline of such pipe downstream of the trap being served.  
 True  
 False

Question 18: 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

Question 19: A vent pipe opening from a waste pipe, not from a water closet is below the weir of the trap. This meets code requirements.  
 True  
 False

Question 20: Two fixtures may be served by a common vertical pipe, when each such fixture wastes separately into an approved \_\_\_\_\_ fitting having inlet openings at the same level.  
 single  
 double  
 triple  
 quadruple

Question 21: 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

Question 22: Each vent shall terminate not less than 10 feet from, or at least \_\_\_\_\_ feet above, any operable window, or door, nor less than 3 feet in every direction from any lot line, alley, and street.  
 1  
 2  
 3  
 4

Question 23: Vent pipes shall be extended separately or combined of full-required size, not less than 6 inches above the \_\_\_\_\_.  
floor  
ground  
ceiling  
roof or fire wall

Question 24: Vent pipes for outdoor installation shall extend at least 10 feet above the surrounding ground and shall be \_\_\_\_\_.  
placed in an accessible area  
marked as to make them more visible  
securely supported  
all of the above

Question 25: A joint at the roof around vent pipes must be made watertight by using approved flashings or flashing material.  
True  
False

Question 26: 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

Question 27: 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 \_\_\_\_\_ placed below the lowest drainage branch connection serving that connection.  
check valve  
beehive strainer  
air gap  
wye-branch fitting

Question 28: The dry vent connection to the wet vent shall be an individual vent or common vent for the \_\_\_\_\_.  
lavatory  
bidet  
shower  
bathtub  
All of the above

Question 29: The wet vent shall be sized based on the fixture unit discharge into the wet vent. The wet vent shall be a minimum size of 2 inches for 4 dfu or less, and \_\_\_\_ inches for more than 4 dfu.  
2  
3  
4  
5

Question 30: Combination \_\_\_\_\_ shall be permitted only where structural conditions preclude the installation of conventional systems as otherwise prescribed by this code  
drainage and indirect waste  
waste and vent systems  
vent and HVAC  
waste and indirect waste

Question 31: Tailpieces or connections shall be as short as possible, and in no case shall exceed \_\_\_\_ feet.  
1.5  
2  
3  
6

### Quiz 5

Question 1: A multifamily residential building consists of common-walled residential buildings of four or fewer units that do not exceed two stories in height, are less than \_\_\_\_\_ square feet in area.  
3000  
4000  
5000  
6000

Question 2: The Uniform Plumbing Code is adopted by the Washington State Building Code Council pursuant to Chapters 19.27 and \_\_\_\_\_.  
732.WAC  
4.5.33 RC  
70.92 RCW  
70.29 RCW

Question 3: The Uniform Plumbing Code adopted by Chapter 51-56 WAC shall become effective in all counties and cities of this state on July 1, 2007, unless local government residential amendments have been approved by the \_\_\_\_\_.  
Authority having Jurisdiction  
State Building Code Council  
State Building Code Committee  
Federal Government

Question 4: No person shall have the right to appeal a decision of the Authority Having Jurisdiction  
True  
False

Question 5: Under \_\_\_\_\_, a person can be certified by the Washington State Department of Health to inspect and test approved backflow assemblies.  
Chapter 246292 WAC  
Chapter 249622 WAC  
Chapter 3.44.01 RCW  
Chapter 102.4.7 RCW

Question 6: No certification shall be required for the installation of a plumbing system within the \_\_\_\_\_.  
Authority having Jurisdiction  
Occupant Residency

property lines and outside a building  
building and outside the property lines

3.0  
3.5

Question 7: A vent pipe may be used as a soil or waste pipe and a soil or waste pipe may be used as a vent.  
True  
False

Question 16: What shower is the exception to 402.3.2.2?  
quick showers  
public showers  
emergency showers  
there is no exception

Question 8: No \_\_\_\_\_ pipe is to be installed or permitted outside of a building or in an exterior wall if adequate provisions are not made to protect such pipe from freezing.  
Drainage  
PVC  
water, soil, or waste

Question 17: The maximum water use allowed in gallons per minute for a lavatory faucet is \_\_\_\_\_.  
2.0  
2.5  
3.0  
3.5

Question 9: All \_\_\_\_\_ pipes installed outside the conditioned space shall be insulated to a minimum R-3.  
indirect waste  
PVC  
water, soil, or waste  
hot and cold water

Question 18: Public restroom lavatory faucets shall be equipped with \_\_\_\_\_.  
soap dispensers  
safety rails to aid the disabled  
hot and cold taps  
(self closing) metering valves

Question 10: The following standards shall be adopted as \_\_\_\_\_ for water closets and urinals  
Sizing and installation regulation  
Plumbing materials, performance standards, and labeling standards  
Industry approved fixture décor  
safety regulations

Question 19: Day care center lavatory faucets intended for infant use require self closing metering valves.  
True  
False

Question 11: The tank-type toilet is allowed a maximum of \_\_\_\_\_ gpf.  
1.5  
1.6  
1.7  
1.8

Question 20: Self-closing metering valves shall be installed in public restrooms in a recreation center for persons with disabilities.  
True  
False

Question 12: The maximum water use per flush allowed for any urinal is \_\_\_\_\_.  
1.0 gpf  
1.5 gpf  
2.0 gpf  
2.5 gpf

Question 21: Replacement aerators have a maximum of \_\_\_\_\_ gpm.  
2.0  
2.5  
3.0  
3.5

Question 13: If a urinal operates on a continuous flow shall it be permitted?  
yes  
no

Question 22: Flushometer tank toilets are allowed a maximum of \_\_\_\_\_ gpf.  
1.5  
1.6  
1.7  
1.8

Question 14: A Flushometer -valve toilet is allowed a maximum of \_\_\_\_\_ gpf.  
1.5  
1.6  
1.7  
1.8

Question 23: The standards for water efficiency and labeling contained within \_\_\_\_\_ shall be in effect as of July 1, 1993.  
Section 402.3  
Section 402.4  
Section 402.2  
Section 403.2

Question 15: The maximum water use allowed for any shower head is \_\_\_\_\_ gallons per minute.  
2.0  
2.5

Question 24: The maximum water use allowed for any shower head is \_\_\_\_\_ liters per minute.  
9.0

9.5  
10.0  
10.5

Question 25: Electromechanical hydraulic toilets can have a maximum \_\_\_\_\_ gpf

1.5  
1.6  
1.7  
1.8

Question 26: Kitchen faucets can have a maximum of \_\_\_\_\_ gpm.

2.0  
2.5  
3.0  
3.5

Question 27: The standards for water efficiency and labeling contained within Section 402.3 shall be in effect as of July 1, 1993, as provided in \_\_\_\_\_ and amended July 1, 1998.

RCW 19.27.107  
RCW 19.21.707  
RCW 19.27.170  
RCW 19.27.071

Question 28: A political subdivision may approve for installation any plumbing fixtures, even if the fixtures do not meet the standards as provided for in this Section.

True  
False

Question 29: Floor drains shall be installed in laundry rooms in a commercial building.

True  
False

Question 30: Floor drains are required in a non-dwelling unit toilet room which has one or more water closets

True  
False

Question 31: The floor should slope toward the drain.

True  
False

Question 32: Where applicable, the Authority Having Jurisdiction shall coordinate with the local water purveyor in all matters \_\_\_\_\_ concerning plumbing \_\_\_\_\_ while working concerning cross-connection control within the property lines of the premises. concerning public health hazards

Question 33: No person shall install any water-operated equipment or use any water-treating chemical, if it is found that such equipment or chemical may cause contamination of the domestic water supply. Such equipment may be permitted however, when equipment \_\_\_\_\_ is required by law has an approved backflow prevention device or assembly has an approved indirect waste line saves lives

Question 34: The code requires that assemblies installed in a potable water supply system for protection against backflow be maintained in good working condition by the person having control of such device.

True  
False

Question 35: The Authority Having Jurisdiction shall ensure that the responsible person shall have the backflow prevention assembly tested by a Washington State Department of Health certified backflow assembly tester: (1) at \_\_\_\_; and (2) at least on an annual schedule. the time of installation, repair, or relocation the time the backflow stops working the beginning of every work week none of the above

Question 36: Potable water supplies connecting to a system having no pumps shall be protected from backflow.

True  
False

Question 37: Which device is not approved by 603.4.6.1?

Spill –resistant pressure vacuum breaker  
Reduced pressure back flow preventer  
A double check valve approved by the water purveyor  
A single check valve

Question 38: Potable water supplies connected to pressurized fire protection systems, excluding one or two-family residential flow-through, shall be protected from backpressure and back-siphonage by \_\_\_\_\_.

a double check valve assembly  
a single check valve  
a beehive strainer  
a floor drain

Question 39: Standard Title for NFPA 99-2205 is for \_\_\_\_\_.

Gas and Vacuum Systems  
Health Care Facilities  
Health Cross Connection Control  
none of the above