The following test is Continuing Education for:

Master Plumbers, Journeyman Plumbers, UDC Plumbing Inspectors, and Commercial Plumbing Inspectors.

You can complete the test by printing a hard copy, or you can take it online. All answers are found in the Wisconsin Uniform Plumbing Code Book (Comm. 81 and 82). If you do not own a Plumbing codebook, you may follow this link to the State of Wisconsin website and download it to your computer. http://commerce.wi.gov/SB/SBDivCodesListing.tml.

The answer sheet can be found at the end of the test. Take the following steps to complete the testing process:

- 1. Print the answer sheet and circle the correct answer.
- 2. Complete and Mail the:
 - a) Answer sheet
 - b) Educational Course Attendance Verification Form (found after the answer sheet)
 - c) Correct fees.

There is no reason to mail the whole test.

Remember: All questions have been extracted from the codebook. Therefore, the one correct answer will be as worded in the codes.

Begin test on the following page...

Plumbing Continuing Education Test 15

Comm 81.01: Definitions

1 means a water closet, lavatory and a bathtub or shower located together on the same floor level.
a. Full bathroomb. Bathroom groupc. Three-quarter bathd. None of the above
2 means that portion of a drain system that consists of a series of pipes that transport water from one area to another without providing detention.
a. Corporation cockb. Cross connection control assemblyc. Conveyance systemd. Cross connection
3 means a pipe or channel outside a building which conveys storm water from the roof or gutter drains to a storm drain, storm sewer or to grade.
a. Leaderb. Adequate channelc. Control measured. Major outfall
4 means a color classification that specifies the relative degrees of the color variables in terms of hue, value and chroma.
a. Mottlingb. Ground surface colorc. Redoximorphic featured. Munsell soil color
5 means the portion of a pipe that is enlarged to receive the end of another pipe of the same diameter for the purpose of making a joint.
a. Bellb. Drip pan elbowc. Suction diffuserd. Connector

6 means a type of plumbing system from which valid and reliable data are being sought to demonstrate compliance with the intent of chs. Comm 82 to 84.
a. Failing private onsite wastewater treatment systemb. Private sewage systemc. Experimental systemd. None of the above
7 means a type of sewage pump which macerates wastewater consisting in part of sewage.
a. Sewage pumpb. Sewage grinder pumpc. Effluent pumpd. Sump pump
8 means any industrial or commercial organization or enterprise operated for profit, including but not limited to a proprietorship, partnership, firm, business trust, joint venture, syndicate, corporation or association.
a. Business servicesb. Organizational structurec. Business establishmentd. Institutional structure
9 means a type of stationary holding tank used to collect and hold wastewater discharges generated by an individual camping trailer or recreational vehicle.
a. Campsite receptorb. Catch basinc. Camping unit transfer containerd. None of the above
10 means the accumulated floating solids generated during the biological, physical or chemical treatment, coagulation or sedimentation of wastewater.
a. Sludgeb. Slimec. Scumd. Sewage
11. Sewage means wastewater containing fecal coliform bacteria exceeding 200 CFU, colony forming units, per 100 ml.
a. True b. False

12 means a drain pipe serving as a receptor for the discharge wastes from indirect or local waste piping.
a. Stackb. Spring line pipec. Spigotd. Standpipe
13 means the unobstructed vertical distance through the free atmosphere between the outlet of indirect or local waste piping and the flood level rim of the receptor into which it discharges.
a. Air-gap b. Air-break c. Air-gap, drain system d. Air-gap, water supply system
14 means an excavation which receives domestic wastewater by means of a drain system without pretreatment of the wastewater and retains the organic matter and solids permitting the liquids to seep from the excavation.
a. Cesspoolb. Cisternc. Refused. Holding tank
15 means a method of venting 2 to 8 traps or trapped fixtures without providing an individual vent for each trap or fixture.
a. Circuit ventb. Auto ventc. Individual ventd. Stack vent
16 means a device supplied with hot or cold water, or both, and located adjacent to a water closet or clinical sink to be used for cleansing bedpans.
a. Exposed wall hung unitb. Mixing valvec. Vacuum breakerd. Bedpan washer hose
17. Bedrock means rock that is exposed at the earth's surface or underlies soil material and includes:
 a. Weathered in-place consolidated material, larger than 2 mm in size and greater than 50% by volume b. Weakly consolidated sandstone at the point of increased resistance to penetration of a knife blade. c. Both a and b d. Neither a or b

18 means an accessible opening in a drain system used for the removal of obstructions.
a. Cleanout plugb. Plumbing augerc. Drain piped. Cleanout
19 means solids in wastewater that can be removed readily by standard filtering procedures in a laboratory and reported as milligrams per liter (mg/L).
a. Water quality measurementb. Conventional pollutantc. Total dissolved solidsd. Total suspended solids
20 means a fitting, device or arrangement of piping so designed and constructed as to provide, when properly vented, a liquid seal which prevents emission of sewer gases without materially affecting the flow of wastewater through it.
a. Trap seal b. Trap seal primer c. Trap weir d. Trap
21 means wastewater other than storm water, having no impurities or where impurities are below a minimum concentration considered harmful by the department, including but not limited to noncontact cooling water and condensate drainage from refrigeration compressors and air conditioning equipment, drainage of water used for equipment chilling purposes and cooled condensate from steam heating systems or other equipment.
a. Blackwaterb. Graywaterc. Drainage waterd. Clear water
22 means a fixture combining one sink and laundry tray or a 2- or 3-compartment sink or laundry tray in one unit.
a. Combination fixtureb. Combination drain and vent systemc. Combination private water maind. Combination water service
23. Lead-free means a chemical composition equal to or less than 0.3% of lead.
a. True b. False

24 means a portion of drain piping which receives the wastes discharged from indirect waste piping and which discharges those wastes by means of an air break or air gap into a receptor.
a. Local waste pipingb. Local ventc. Multipurpose piping systemd. None of the above
2 5 means a branch vent connecting at or downstream from the junction of 2 fixture drains and serving as a vent for those fixture drains.
a. Common ventb. Circuit ventc. Auto ventd. Stack vent
26 means a test performed on a plumbing system or portion thereof in which the system is filled with a liquid, normally water, and raised to a designated pressure.
a. Hydrostatic testb. Test pressurec. Water jacket testd. Water pressure test
27 means drain piping which does not connect directly with the drain system, but which discharges into the drain system by means of an air break or air gap into a receptor.
a. Individual ventb. Indirect waste pipingc. Infiltration componentd. Infiltrative surface
28 means a drain pipe inside the building which conveys storm water from a roof to the storm drain or storm sewer.
a. Containmentb. Conductorc. Contaminant loadd. Common vent
29 means a tank or pit that receives wastewater that must be emptied by mechanical means.
a. Basement waterproofing systemb. Sumpc. Water tabled. Water tank

30 means a valve placed in a water service or a private water main, usually near the lot line.
a. Dead endb. Stop and drain ball valvec. Meter valved. Curb stop
31 means a dimensional volume of in situ soil that receives wastewater for treatment or distributes final effluent for dispersal.
a. Distribution cellb. Dispersal zonec. Documented datad. Domestic wastewater
32 means a layer of soil material approximately parallel to the land surface and differing from adjacent genetically related layers in physical, chemical, or biologic characteristics.
a. Soil consistenceb. Soil morphologyc. Soil horizond. Soil profile
33 means the end of a pipe which fits into a bell or hub.
a. Valveb. Mixer tapc. Faucetd. Spigot
34 means any pipe that carries wastewater or water-borne wastes.
a. Drain systemb. Exam sinkc. Treatment sinkd. Drain
35 means liquid discharged from a process, device, appurtenance or piping system.
a. Ejectorb. Effluentc. Elevationd. Engineered soil

36 means a specification, standard, guideline or procedure in the field of plumbing or related thereto, generally recognized and accepted as authoritative documented through national standards or specifications.
a. Approved standardsb. Quality assurance standardsc. Accepted engineering practiced. None of the above
37 (when applied to a fixture, appliance, pipe, fitting, valve or equipment) means having access for maintenance, but which first may require the removal of an access panel or similar obstruction.
a. Accessibleb. Readily accessiblec. Opend. Available
38 means wastewater contaminated by waste materials, exclusive of urine, feces or industrial waste, deposited into plumbing drain systems.
a. Groundwaterb. Graywaterc. Clearwaterd. Blackwater
39 means a unit for the treatment of wastewater that utilizes the principle of oxidation for biological decomposition.
a. Standard treatment componentb. Anaerobic treatment componentc. Residential wastewater systemd. Aerobic treatment component
40 means a receptacle designed to intercept and retain or remove grease or fatty substances.
a. Grease recovery deviceb. Grease interceptorc. Grease shieldd. Grease guzzler
41 means a plumbing appliance, the function of which is unique to health care activities.
a. Hand held showerb. Assisted living bath fixturesc. Health care plumbing applianced. Healthcare accessible

42n system.	neans a device designed to prevent the reverse flow of wastewater in a drain
a. Access boxb. Diverter vac. Backwaterd. Access sleet	alve valve
	neans a water supply valve opened or closed by means of a float or similar o supply water to a tank.
a. Ballcockb. Floatc. Leverd. Liftarm	
	means zones of soil saturation which include perched water tables, shallow ndwater tables or aquifers, or zones that are seasonally, periodically or saturated.
a. High hazarb. High grounc. Low ground. High groun	ndwater elevation dwater
	neans a manufactured device or prefabricated assembly of component parts djunct to a plumbing product or plumbing system.
a. Accessoryb. Appurtenance. Fabricatedd. Assembled	
46 m	neans a receptor designed to collect storm waters from an open area.
a. Floor drainb. Area drainc. Trench drad. Grease inter	in
the lowest op	cans the unobstructed vertical distance through the free atmosphere between ening from any pipe or faucet supplying water to a tank or plumbing fixture level rim or spill level of the receptacle.
a. Air-gap, wa b. Air-gap c. Air-gap, dr d. Air-break	ater supply system rain system

48 means a watertight receptacle for the collection and holding of wastewater.
a. Holding tankb. Horizontal pipec. Hose connection backflow preventerd. Hose connection vacuum breaker
49. Hot water means water at a temperature of 110 °F or more.
a. True b. False
50 means soil naturally formed or deposited in its present location or position and includes soil material that has been plowed using normal tillage implements and depositional material resulting from erosion or flooding.
a. In situ soilb. Ex situ soilc. Soil mechanicsd. Shrink-swell capacity
51 means a part of a piping system other than a riser, main or stack.
a. Fitting b. Valve c. Pipe cap d. Branch
52 means the vertical distance along a drain stack measured from immediately below a branch drain connection to immediately below the first lower branch drain connection that is 8 feet or more below.
 a. Branch tailpiece b. Branch vent c. B. T. U d. Branch interval
53 means a device designed and installed so as to separate and retain deleterious hazardous or undesirable matter from wastes flowing through it.
a. Interceptorb. Separatorc. Neither a or bd. Both a and b

relief and pressure relief valve.
a. Temperature and pressure relief valveb. Low pressure valvec. Vacuum valved. Temperature relief valve
55 water means water ranging in temperature from 85 °F. to less than 110 °F.
a. Hot b. Alkaline c. Tempered d. Tap
56 means a product designed to support soil and create a cavity for the temporary storage of effluent and to provide an infiltrative surface for the distribution cell POWTS dispersal or treatment component.
a. Septic tankb. Leaching chamberc. Drainfieldd. Gravelless system
57 means a device designed to intercept and retain oil, lubricating grease or other similar materials.
a. Grease recovery deviceb. Grease trapc. Oil interceptord. Grease guzzler
58. Design wastewater flow means 100% of the estimated wastewater flow generated by a dwelling, building or facility.
a. True b. False
59 means a type of POWTS treatment component, excluding a soil—based POWTS treatment component, that utilizes a chemical or photoelectric process to reduce the wastewater fecal coliform contaminant load.
a. Ozonationb. Chlorinationc. Disinfection unitd. Artificial UV radiation

60 means the point on the bank or shore up to which the presence and action of surface water is so continuous as to leave a distinctive mark such as by erosion, destruction or prevention of terrestrial vegetation, predominance of aquatic vegetation, or other easily recognized characteristic.
a. Ordinary high-water markb. Hydrophyticc. Public trust domaind. Floodplain
61 means a fixture having an integral trap and a flushing rim so that water cleanses the interior surface.
a. Flushing rim sinkb. Clinic service sinkc. Clinic sinkd. All of the above
62 means a valve end of a water pipe by means of which water can be drawn from or held within the pipe.
a. Faucetb. Fixture drainc. Fixture supplyd. Final effluent
63 means a receptor for the discharge from indirect or local waste piping installed with its flood level rim even with the surrounding floor.
a. Foundation drainb. Flushometer valvec. Flush valved. Floor sink
64. Cold water means water at a temperature less than 87 °F.
a. True b. False

- 65. Plumbing means and includes:
- a. All piping, fixtures, appliances, equipment, devices and appurtenances in connection with the water supply, water distribution and drainage systems, including hot water storage tanks, water softeners and water heaters connected with such water and drainage systems and also includes the installation thereof.
- b. The construction, connection or installation of any drain or waste piping system from the outside or proposed outside foundation walls of any building to the mains or other sewage system terminal within bounds of, or beneath an area subject to easement for highway purposes, including private sewage systems, and the alteration of any such systems, drains or waste piping.
- c. The water service piping from the outside or proposed outside foundation walls of any building to the main or other water utility service terminal within bounds of, or beneath

an area subject to easement for highway purposes and its connections. d. All of the above
66 includes the water supply system, the drain system, the vent system, plumbing fixtures, plumbing appliances and plumbing appurtenances that serve a building, structure or premises.
a. Plumbing applianceb. Plumbing fixturec. Plumbing systemd. POWTS
67 means a pressure actuated valve held closed by a spring or other means and designed to automatically relieve pressure at a designated pressure.
a. Quick closing valveb. Pressure relief valvec. Anti-siphon valved. Control valve
68 means a type of cross connection control device which consists of an independently operating internally loaded check valve and an independently operating loaded air inlet located on the discharge side of the check valve, a tightly closing shut—off valve located at each end of the assembly, and test cocks.
a. Pressure vacuum breaker assembly b. PVB

- c. Both a and b
- d. Neither a or b
- 69. means a device that uses the water supply to create a pressurized discharge to flush a fixture exclusive of gravity type flushing systems.
- a. Flushometer valve
- b. Pressurized flushing device
- c. Flushometer tank
- d. Gravity type flushing system

result of cutting the pipe.
a. Nipple b. Burr c. Bump d. Bulge
71 means wastewater contaminated by human body waste, toilet paper and any other material intended to be deposited in a receptor designed to receive urine or feces.
a. Clearwaterb. Graywaterc. Blackwaterd. None of the above
72. Potable water means water that is:
 a. Safe for drinking, personal or culinary use. b. Free from impurities present in amounts sufficient to cause disease or harmful physiological effects. c. Both a and b d. Neither a or b
73 means any subsystem, subassembly or other system designed for use in or as part of a private onsite wastewater treatment system which may include treatment, dispersal or holding and related piping.
a. POWTS treatment componentb. POWTS holding componentc. POWTS dispersal componentd. POWTS component
74 means a vessel designed to receive the discharge from a boiler blow-off outlet and to cool the discharge to a temperature that permits safe entry into the drain system.
a. Boiler feed systemb. Boiler blow-off basinc. Deaeratorsd. Boiler blow-down system
7 5. Private water main means a water main serving 2 or more buildings and is part of the municipal water system.
a. True b. False

76 means a valve or faucet that closes automatically when released manually or controlled by mechanical means for fast action closing.
a. Globe valveb. Pressure relief valvec. Quick closing valved. Angle valve
77 means a connection in which one pipe slips into another, the joint of which is made tight with a compression type fitting.
a. Slip-jointb. Camc. Set screwd. Leveling rods
78 means the accumulated solids generated during the biological, physical or chemical treatment, coagulation or sedimentation of water or wastewater.
a. Slimeb. Sludgec. Scumd. Sewage
79 means an automatic device located in a sump, pit or low point that is designed to elevate storm water, groundwater or clear water.
a. Pedestalb. Submersiblec. Sump pumpd. Canister
80 means the reference point on a vacuum breaker that must be submerged before backflow can occur.
a. Cross connectionb. Critical levelc. Cross connection control deviced. None of the above
Comm 82.30 (10) (b) 4c: Sanitary drain systems
81. Whereejector or pumping equipment is installed, each discharge pipe from an ejector or pump shall be provided with a gate or ball type valve installed downstream of each full flow check valve.
a. Specialb. Duplicatec. Existingd. Pressurized

82. Air relief valves shall beat all high points in the discharge piping of an ejector or pump where the piping arrangement creates an air trap.
a. Supportedb. Suppliedc. Maintainedd. Provided
83. No fixtures may be connected to the discharge pipe between the ejector or pump and the point where it enters the gravity drain.
a. True b. False
84. No building sewer may pass through or under a building to serve another building, unless:
a. The building sewer serves farm buildings or farm houses, or both, which are all located on one property b. The building sewer or private interceptor main sewer serves buildings located on the same property and a document, which indicates the piping and distribution arrangement for the property and buildings, shall be recorded with the register of deeds no later than 90 days after installation. c The building sewer serves farm buildings or farm houses, or both, which are all located on neighboring properties. d. a or b
85. All building drains shall be installed below the lowest floor levels on which fixtures may be installed if the elevation permits.
a. Public sewerb. POWTsc. Private interceptor main sewerd. a. b, or c
86. A building drain subject to backflow or backwater shall be with a backwater valve or with a sump with pumping equipment in accordance with sub. (10).
a. Protectedb. Supportedc. Suppliedd. Connected

87 valves, when fully open, shall have a capacity not less than that of the pipes in which installed.
a. Ball b. Butterfly c. Backwater d. Non-return
88. Backwater valves shall be so located as to be readily accessible for
a. Flushingb. Cleaningc. Appraisald. Adjustment
89. Where a plumbing fixture or appliance is located on a floor which is entirely, a floor drain shall be installed to serve that floor.
a. Above gradeb. At gradec. Below graded. None of the above
90. In any room containing the recessed or concealed portions of located in health care or related facilities, at least one floor drain connecting to the drainage system shall be installed in a manner to adequately drain the entire floor area.
a. Sterilizersb. Autoclavesc. X-ray equipmentd. All of the above
91. Except as provided in subd. 2. c. to e., a building sewer or private interceptor main sewer shall be protected from in accordance with subd. 3. in areas where the top of the building sewer or private interceptor main sewer is located less than 60 inches below a surface area from which snow will be cleared.
a. Snow b. Hail c. Ice d. Frost
92. Where a building sewer or private interceptor main sewer is installed to serve summer use public facilities, frost protection requirements shall not apply.
a. True b. False

93. All for building drains and building sewers shall be open trench work, unless otherwise permitted by local ordinance or accepted by the local inspector.
a. Trenching b. Shoring c. Excavations d. Backfilling
94. Where the bottom of the trench can be maintained in a stable condition and free of during the time of installation the building drain and the building sewer shall be bedded and initially backfilled as specified in this subdivision.
a. Waterb. Hazardous atmospheresc. Surface tension cracksd. Saturated soil
95. Where the trench bottom does not contain stone larger than one inch in size or where bedrock is not, the trench may be excavated to grade.
a. Encounteredb. Presentc. Unconsolidatedd. Sloped
96. Where a mucky or unstable bottom is encountered in the trench, the required dry and stable foundation conditions shall be provided by sheathing driven and left in place to a depth of 48 inches below the trench bottom or to solid foundation at a lesser depth, the removal of wet and yielding material to a depth of 24 inches or to solid material, and replacement of the unstable material withfor the bedding under the pipe.
a. Limestone screeningsb. Pea gravelc. Equivalent materiald. a, b, or c
97. Care shall be exercised in placing the of the backfill to prevent breakage of the pipe.
a. Open-graded soilb. Unsuitable materialc. Remainderd. Balance
98 shall not be used in the backfill.
a. Large boulders or rockb. Concrete slabsc. Frozen massesd. All of the above

99. The ends of all pipes not immediately connected shall be closed so as to the introduction of earth or drainage from an excavation.
a. Thwart b. Prevent c. Stop d. Impede
100. Where a forced building sewer discharges to a pressurized public sewer, a shall be installed.
a. Full flow corporation cockb. Full flow curb stopc. Check valve and dresser type couplingd. All of the above
101. The curb stop, check valve and dresser type coupling shall be installed on the property to the connection to the common forced main sewer.
a. Parallelb. Nextc. Adjacentd. As close as possible
102. No person may connect to a public sewer any building through which is discharged any substance likely to cause undue corrosion, obstruction, nuisance, explosion or interference with sewage treatment processes.
a. Drain b. Sewer c. Septic d. a or b
103. Except as provided in s. Comm 82.36 (3), drain piping may not discharge to a sanitary building drain which connects to a publicly—owned treatment works.
a. Stormb. Clear waterc. Gray waterd. a and b
104. Plumbing fixtures, except, shall be of the wall mounted type.
a. Bathtubsb. Showersc. Urinalsd. a and b

105shall have waste and overflow connections made above the floor and piped to a trap below the floor.
a. Bathtubsb. Lavatoriesc. Drinking fountainsd. Water closets
106. Floor and shower drains installed shall be equipped with pans.
a. Headb. Integral seepagec. Draind. Shower
107. Where drain piping is located in ceilings of areas where are prepared, handled stored or displayed, the ceilings shall be of the removable type, or shall be provided with access panels in order to provide an access for inspection of the piping.
a. Foodb. Icec. Potable liquidsd. All of the above
108. Exposed drain piping shall not be located over a pool, surge tank or an open filter for a pool.
a. True b. False
Comm 82.31 Vents and venting systems
109. Drain stacks of more than branch intervals shall be provided with yoke vents.
a. 10 b. 5 c. 6 d. 8
110. All vent terminals shall be located:
 a. At least 8 feet from an air intake; At least 5 feet from a power exhaust vent; b. At least 8 feet horizontally from or 2 feet above roof scuttles, doors and openable windows c. At least 3 feet from or 2 inches above parapet walls. d. None of the above

111. Where a structure has a(n) roof extending from surrounding grade, the vent extension shall run at least 7 feet above grade and terminate with an approved vent cap.
a. Flatb. Gablec. Earth coveredd. Hip
112. The portion of vent pipe outside the structure shall be without joints, except fitting may be installed where the pipe leaves the top or side of the structure.
a. One b. Elbow c. Union d. Barb
113. Where approved by the department, a vent may through an exterior wall.
a. Continueb. Departc. Terminated. None of the above
114. Drain or vent pipe extensions shall not be located or placed on the outside of an exterior wall of any building, but shall be located inside the building.
a. Attachedb. Commercialc. Pre-fabricatedd. New
115. A shall not be used for purposes other than the venting of the plumbing system.
a. Vent b. Vent system c. Vent piping d. a or b
116. Vent piping from boiler blowoff basins shall not be connected to a vent or vent system serving a drain system, storm drain system or chemical waste system.
a. Branchedb. Trenchc. Frenchd. Sanitary

117. Vent piping for systems shall not be connected to a vent system serving a sanitary drain system or storm drain system.
a. Chemical wasteb. Sanitary drainc. Sewage draind. Storm drain
118. Vents serving sterilizers, cleansing or degreasing equipment, pressing machines or any other apparatus which normally discharges steam into the vent shall not be connected to a vent or a vent system serving a sanitary drain system, storm drain system or chemical waste system.
a. Table topb. Autoclavec. Steam operatedd. Dry heat
Comm 82.32 :Traps and direct fixture connections.
119. All traps shall be rigidly supported and set true with respect to the water level and so located as to protect the water seals, and shall be protected from and evaporation.
a. Crackingb. Freezingc. Leakingd. Heat
120. Except as provided in s. Comm 82.33, all plumbing fixtures and appliances discharging wastes shall connect to a drain system.
a. Tightlyb. Directlyc. Securelyd. Safely
Comm 82.33: Indirect and local waste piping
121. Indirect waste piping and local waste piping draining the fixtures, appliances and devices having a public health, including but not limited to those listed in Table 82.33-1, shall be considered as plumbing and shall comply with the provisions of this section.
a. Initiativeb. Challengec. Concernd. Risk

shall beby extending the indirect waste piping or local waste piping and the receptor shall beby extending the indirect waste piping or local waste piping below the flood level rim of the receptor and terminating at an elevation above the trap outlet.
a. Completed b. Attained c. Accomplished d. Reinforced
123. A receptor receiving the discharge from indirect waste piping or local waste piping shall be of a shape and capacity as to prevent or flooding.
a. Splashingb. Overflowc. Overspilld. Runoff
124. The waste piping of a portable dishwasher or water treatment device serving one or 2 outlets may discharge into a kitchen sink of a dwelling unit or to a branch tail piece serving a kitchen sink.
a. Indirectb. Cast-iron soilc. Single hubd. Rigid
125. The indirect waste piping of an automatic clothes washer or water treatment device may not discharge into a laundry tray.
a. True b. False
126. The indirect or local waste piping a cross connection control device or assembly, water treatment device, air conditioner, humidifier or furnace condensate may discharge into a branch tailpiece serving a laundry tray.
a. Dividingb. Sharingc. Servingd. Linking

127. The local waste piping serving a water heater temperature and pressure relief valve, water treatment device, cross connection control device or assembly, humidifier, sterilizer, or a furnace or air conditioner may discharge into the of a floor drain when installed in accordance with sub. (7) (b).
a. Body b. Riser c. Clamp collar d. Top grate
128. The indirect or local waste piping serving a water heater temperature and pressure relief valve, water treatment device, cross connection control device or assembly, or a furnace or air conditioner may discharge to a floor served by a floor drain so as not to create a hazard.
a. Physicalb. Environmentalc. Workplaced. Health or safety
129. Except as provided in subd. 2. b., wastewater more than ° F in temperature shall be discharged by means of indirect waste to the plumbing system.
a. 120 b. 130 c. 150 d. 160
130. Steam condensate blow down shall be cooled to 160°F in temperature prior to discharging to a plumbing system.
a. True b. False
131. When discharging to a plumbing system, all water shall discharge by means of an air–gap.
a. Storm b. Clear c. Black d. Grey
132. Residential—type clothes washers shall discharge into the sanitary drain system by means of a(n)
a. Air gap b. Air-break c. High-loop d. Hydrostatic loop

133. Pumped—discharge automatic clothes washing equipment in shall have the wastes discharge to a drain system by means of standpipes.
a. Launderettesb. Laundromatsc. Self–service laundry establishmentsd. All of the above
134. Washer wastes shall not be discharged to gutters, troughs, local waste piping, indirect waste manifold or other similar connections.
a. True b. False
135. Gravity discharge—type clothes washing equipment shall discharge by means of an air—break or by other approved methods into a
a. Floor receptorb. Trenchc. Troughd. All of the above
13 6. The indirect waste piping from a residential—type dishwashing machine shall not exceed a developed length offeet.
a. 10 b. 11 c. 12 d. 12.5
Comm 82.34: Wastewater treatment devices
137. Any deleterious waste material which is discharged into a plumbing system shall be to a wastewater treatment device.
a. Channeled b. Routed c. Released d. Directed
138. The wastewater treatment device shall be capable of the deleterious waste material to a degree that the wastewater is no longer deleterious.
a. Separatingb. Dilutingc. Neutralizingd. a, b, or c

139. Wastewater treatment devices that retain any waste materials shall be designed and installed to facilitate periodic
a. Removal b. Treatment c. Pumping d. a or b
140. Except as provided in subd. 2., wastewater discharged from water closets or urinals shall not be reused for drinking water or for reuse.
a. Allowed b. Intended c. Treated d. Permitted
141. All treatment works permitted by the, or a POWTS which includes an in situ soil dispersal or treatment component may treat wastewater discharged from water closets or urinals for reuse.
a. Department of agricultureb. Department of health servicesc. Department of regulation and licensingd. Department of natural resources
142. The treatment or disposal system shall be installed so as not to any water supply which is or may be used for drinking, culinary or bathing purposes, or which may create a nuisance, unsanitary conditions or water pollution.
a. Change b. Affect c. Endanger d. Involve
143. Interceptors, catch basins and other similar devices shall be so that flow rates shall be developed and maintained in a manner that solid and floating materials of a harmful, hazardous or deleterious nature will be collected in the interceptor for disposal.
a. Designedb. Sizedc. Installedd. All of the above

144. All devices installed for the purpose of intercepting, separating, collecting, or treating harmful, hazardous or deleterious materials in liquid or liquid—borne wastes shall be operated and cleaned of intercepted or collected materials or of any residual from treatment at such intervals which may be required to their passage through the interceptor.
a. Prevent b. Reduce c. Eliminate d. Stop
145. Any fixed orifice, vent or trap of an interceptor, catch basin or other similar device shall remain intact and shall not be removed or tampered with except for purposes.
a. Treating b. Cleaning c. Authorized d. Unusual
146. After, all parts of the interceptor, collector or treatment device, such as baffles, weirs, orifice plates, channels, vents, traps, tops, and fastening bolts or screws shall be replaced in proper working position.
a. Repairb. Servicec. Evaluationd. Modification
147. No interceptor, catch basin or similar device may be or covered as to render it inaccessible for service or inspection.
a. Enclosed b. Exposed c. Fastened d. Surrounded
148. No interceptor, catch basin or similar device may have its top located more than feet above the surrounding floor.
a. 6 b. 3 c. 4 d. 5

149. Deleterious waste materials retained by an interceptor, catch basin or similar device shall
not be into any drain, sewer or natural body of water without approval of the state agency having jurisdiction.
a. Introducedb. Allowedc. Permittedd. Released
150. All plumbing installations for occupancies, other than dwelling units, where grease, fats, oils or similar waste products of cooking or food are introduced into the drain system shall be provided within accordance with this subsection.
a. Cleanouts b. Valves c. Interceptors d. Fixtures
151. Exterior grease interceptors shall receive the waste discharge from kitchens or food processing areas.
a. Trappedb. Entirec. Separatedd. All of the above
152. Manhole risers for interceptor tanks shall be provided with a cover of concrete, steel, cast iron or other approved material.
a. Substantialb. Fittedc. Watertightd. All of the above
153. Manhole covers shall terminate grade and shall have an approved locking device.
a. At b. Above c. Below d. a or b
154. Where the tank the septic tank and grease interceptor the label shall identify it as such.
a. Replacesb. Acts asc. Controlsd. Services

155. The minimum liquid capacity of a grease interceptor shall be determined in accordance with the provisions of this subdivision, except no grease interceptor may have a capacity of less than gallons if the interceptor is to discharge to a private onsite wastewater treatment system or less than 750 gallons if the interceptor is to discharge to a municipal sewer system and treatment facility.
a. 500 b. 1000 c. 800 d. 900
156. Grease interceptor tanks may not be located within 5 feet of a building or any portion of the building or swimming pool; feet of a water service; 2 feet of a lot line; feet of a cistern or 25 feet of a reservoir or high water mark of a lake, stream, pond or flowage.
a. 5 b. 6 c. 20 d. 10
157. No water-cooled grease interceptor may be installed.
a. True b. False
158. No grease interceptor may be located where the surrounding temperatures, under operating conditions, are less than° F.
a. 40 b. 35 c. 43 d. 41
159. Oil and flammable interceptors and separators shall be so designed to prevent theof explosive gases.
a. Dischargeb. Releasec. Formationd. Accumulation
160. The wastes from meat processing areas, slaughtering rooms and meat dressing rooms shall be discharged through an approved interceptor to prevent the discharge of and other materials.
a. Feathersb. Entrailsc. Bloodd. All of the above

Comm 82.35: Cleanouts

161. The cleanout shall be located within feet of where the building drain and the building sewer connect.
a. 5 b. 6 c. 7 d. 8
162. The cleanout may only be located outside the building.
a. True b. False
163. A cleanout in a drain stack may serve as the cleanout at the junction of the building drain and building sewer, if the stack is5 feet of where the building drain and building sewer connect.
a. More thanb. Less thanc. Withind. Outside
164. Where a cleanout is provided in a drain stack, the cleanout shall be located inches above the lowest floor penetrated by the stack.
a. 26 to 58 b. 28 to 60 c. 30 to 60 d. None of the above
165. Except as provided in subd. 2., cleanouts shall be provided in connection with batteries of fixtures at such points that all parts of the branch drain may be accessible for of stoppages.
a. Cleaningb. Removalc. Preventiond. a or b
166. Drain pipes carrying greasy wastes shall be provided with cleanouts located not more than 40 feet apart and at all changes in direction of more than degrees.
a. 40 b. 45 c. 50 d. 60

167. Cleanout access for drain piping located in spaces shall be provided by either extending the cleanout to at least the surface of a wall or floor or by providing access panels of a sufficient size to permit removal of the cleanout plug and proper cleaning of the pipe.
a. Coveredb. Approvedc. Opend. Concealed
168. Cleanout openings shall not be used for the installation of fixtures or floor drains, except where another cleanout of equal is provided.
a. Accessb. Capacityc. Threadd. a and b
169. Solid watertight manhole covers are to be used wherever the manhole tops may be street runoff or high water.
a. Exposed tob. Flooded byc. Affected byd. Have contact with
170. Where groundwater conditions are, manholes of brick or block shall be waterproofed on the exterior with plastic coatings supplemented by a bituminous waterproof coating or other approved coatings.
a. Likelyb. Favorablec. Unfavorabled. Possible
171. Inlet and outlet pipes are to be joined to the manhole with a connection or any watertight connection arrangement that allows differential settlement of the pipe and manhole wall to take place.
a. Gasketedb. Flexiblec. Watertightd. All of the above

172. An outside drop pipe is to be for a sewer entering a manhole where the invert elevation of the entering sewer is 2 feet or more above the spring line of the outgoing sewer.
a. Introduced b. Supplied c. Installed d. Provided
Comm 82.36: Stormwater and clearwater plumbing
173. No storm building sewer or private interceptor main storm sewer may pass through or under a building to serve another building, unless one of the following conditions is met:
 a. The storm building sewer or private interceptor main storm sewer serves farm buildings or farm houses, or both, that are located on one property. b. Where a storm building sewer or private interceptor main storm sewer serves buildings that are located on one property, a document that indicates the piping and distribution arrangement for the property and buildings is recorded with the register of deeds no later than 90 days
after installation. c. a or b d. Neither a or b
174. All underground stormwater storage tanks for water reuse shall be separated from sanitary sewers by a minimum of feet.
a. 8 b. 6 c. 10 d. 5
175. Roof drain strainers used on sun decks, open parking decks and similar areas shall be of the type, shall be level with the deck and shall have an available inlet area of not less than 2 times the area of the conductor to which the drain connects.
a. Funnelb. Conventionalc. Flat surfaced. Approved
176. A stormwater or clearwater subsurface infiltration plumbing system consisting in part of in situ soil may not be installed if the soil is at the infiltrative surface.
a. Frozenb. Saturatedc. Compactedd. Well-drained

177. Snow cover shall be before excavating or installing a stormwater or clearwater system component consisting in part of in situ soil.
a. Evaluated b. Considered c. Measured d. Removed
178. For a stormwater or clearwater subsurface infiltration plumbing system consisting in part of in situ soil, the soil shall be evaluated immediately prior to installation of the component.
a. Moisture contentb. Conditionc. Compositiond. Type
179. Pursuant to s. 160.19 (2) (a), Stats., the department has determined that it is not technically or economically feasible to require that a stormwater or clearwater subsurface infiltration plumbing system treat wastewater to comply with the preventive action limit for specified in ch. NR 140 Table 2, as existed on June 1, 1998.
a. Nitratesb. Chloridec. Bacteriad. Chromium
180. Sanitary dump stations which are used to receivewastes andwastewater from the holding tanks of travel trailers, recreational vehicles or other similar mobile vehicles, and transfer containers shall conform with this subsection.
a. Human b. Domestic c. Solid d. Commercial

Plumbing Continuing Education Test 15

Answer Sheet Circle or mark the correct answer

1.	a	b c d	49.	a	b c d	97.	a	b c d	145. a b c d
2.	a	b c d	50.	a	b c d	98.	a	b c d	146. a b c d
3.	a	b c d	51.	a	b c d	99.	a	b c d	147. a b c d
4.	a	b c d	52.	a	b c d	100.	a	b c d	148. a b c d
5.	a	b c d	53.	a	b c d	101.	a	b c d	149. a b c d
6.	a	b c d	54.	a	b c d	102.	a	b c d	150. a b c d
7.	a	b c d	55.	a	b c d	103.	a	b c d	151 abcd.
8.	a	b c d	56.	a	b c d	104.	a	b c d	152. a b c d
9.	a	b c d	57.	a	b c d	105.	a	b c d	153. a b c d
10.	a	b c d	58.	a	b c d	106.	a	b c d	154. a b c d
11.	a	b c d	59.	a	b c d	107.	a	b c d	155. a b c d
12.	a	b c d	60.	a	b c d	108.	a	b c d	156. a b c d
13.	a	b c d	61.	a	b c d	109.	a	b c d	157. a b c d
14.	a	b c d	62.	a	b c d	110.	a	b c d	158. a b c d
15.	a	bcd	63.	a	b c d	111.	a	b c d	159. a b c d
16.	a	b c d	64.	a	b c d	112.	a	b c d	160. a b c d
17.	a	bcd	65.	a	b c d	113.	a	b c d	161. a b c d
18.	a	b c d	66.	a	bcd	114.	a	b c d	162. a b c d
19.	a	bcd	67.	a	bcd	115.	a	b c d	163. a b c d
20.	a	bcd	68.	a	bcd	116.	a	b c d	164. a b c d
21.	a	bcd	69.	a	bcd	110.	a	bcd	165. a b c d
22.			70.			117.		bcd	166. a b c d
	a	bcd		a	b c d		a		
23.	a	b c d	71.	a	b c d	119.	a	b c d	167. a b c d
24.	a	bcd	72.	a	bcd	120.	a	b c d	168. a b c d
25.	a	bcd	73.	a	b c d	121.	a	b c d	169. a b c d
26.	a	bcd	74.	a	b c d	122.	a	bcd	170. a b c d
27.	a	bcd	75.	a	bcd	123.	a	b c d	171. a b c d
28.	a	bcd	76.	a	bcd	124.	a	bcd	172. a b c d
29.	a	bcd	77.	a	b c d	125.	a	b c d	173. a b c d
30.	a	b c d	78.	a	b c d	126.	a	b c d	174. a b c d
31.	a	b c d	79.	a	b c d	127.	a	b c d	175. a b c d
32.	a	b c d	80.	a	b c d	128.	a	b c d	176. a b c d
33.	a	b c d	81.	a	b c d	129.	a	b c d	177. a b c d
34.	a	b c d	82.	a	b c d	130.	a	b c d	178. a b c d
35.	a	b c d	83.	a	b c d	131.	a	b c d	179. a b c d
36.	a	b c d	84.	a	b c d	132.	a	b c d	180. a b c d
37.	a	b c d	85.	a	b c d	133.	a	b c d	
38.	a	b c d	86.	a	b c d	134.	a	b c d	
39.	a	b c d	87.	a	b c d	135.	a	b c d	
40.	a	b c d	88.	a	b c d	136.	a	b c d	
41.	a	b c d	89.	a	b c d	137.	a	b c d	
42.	a	b c d	90.	a	b c d	138.	a	b c d	
43.	a	b c d	91.	a	b c d	139.	a	b c d	
44.	a	b c d	92.	a	b c d	140.	a	b c d	
45.	a	b c d	93.	a	b c d	141.	a	b c d	
46.	a	b c d	94.	a	b c d	142.	a	b c d	
47.	a	b c d	95.	a	b c d	143.	a	b c d	
48.	a	b c d	96.	a	b c d	144.	a	b c d	
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