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1. Print these pages.
2. Circle the correct answers.
3. Page down to the last page for the verification forms and mailing instructions.
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Testplmb30

**Course: 6857 INTERNET TEST PLMB30**

**This course is valid for these credentials:**

<b>Credential Description</b>	<b>Cred Code</b>	<b>Credit Hours</b>
Commercial Plumbing Inspector	CPI	3.0
Journeyman Plumber	PJ	3.0
Master Plumber	PM	3.0
UDC-Plumbing Inspector	UPI	3.0

1. Where a plumbing fixture or appliance is located on a floor which is entirely below grade, a \_\_\_\_\_ shall be installed to serve that floor.
  - a) receptor
  - b) standpipe
  - c) floor drain
  - d) a, b, & c
2. Frost protection zones. Monroe County is in what zone?
  - a) zone a
  - b) zone b
  - c) zone c
  - d) zone d
3. Predicted depth of frost for sand soil in zone c would be?
  - a) 5'
  - b) 5.5'
  - c) 6.5'
  - d) 7.5'
4. Minimum thickness of extruded polystyrene foam insulation in zone c is?
  - a) 1"
  - b) 1.5"
  - c) 2"
  - d) 2.5"
5. Frost protection for building sewers when using extruded polystyrene foam insulation shall be installed using the box method.
  - a) true
  - b) false
6. Frost protection for building sewers when using extruded polystyrene foam insulation shall be installed at or below a depth of at least \_\_\_\_\_ below finished grade.
  - a) 6"
  - b) 9"
  - c) 12"
  - d) 18"

7. Installation of building drains and building sewers: a. Except where sand is encountered, the trench bottom throughout its length shall be excavated to a depth at least \_\_\_\_ below the grade elevation and shall be brought back to grade with sand, pea gravel, or a graded stone bedding.
  - a) 2"
  - b) 3"
  - c) 4"
  - d) 6"
8. Installation of building drains and building sewers: The bedding material shall be of a size that all the material shall pass a \_\_\_\_ sieve.
  - a)  $\frac{3}{4}$ "
  - b)  $\frac{1}{2}$ "
  - c) 1"
  - d)  $\frac{3}{8}$ "
9. Installation of building drains and building sewers: Initial backfill on the sides of the pipe and to a depth of \_\_\_\_ over the pipe shall be sand, gravel, crushed stone or excavated material which is neither corrosive nor organic in nature.
  - a) 9"
  - b) 6"
  - c) 12"
  - d) 24"
10. Installation of building drains and building sewers: Unstable bottom. 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 \_\_\_\_ below the trench bottom or to solid foundation at a lesser depth.
  - a) 30"
  - b) 32"
  - c) 42"
  - d) 48"
11. Installation of building drains and building sewers: Backfill completion. Care shall be exercised in placing the balance of the backfill to prevent breakage of the pipe. Large boulders or rock, concrete slabs, or frozen masses shall not be used in the backfill. At least \_\_\_\_ of backfill cover shall be provided over the top of the pipe before the pipe trench is wheel-loaded.
  - a) 24"
  - b) 30"
  - c) 36"
  - d) 42"
12. When the public sewer is concrete or clay, the end of the connecting sewer may be set upon or in an opening cut into the top half of the public sewer, but shall not protrude into the public sewer. The connection shall be secured by encasing the main sewer pipe and the connection in concrete at least \_\_\_\_ thick so as to assure permanency of the connection and adequate backing of the public sewer pipe.
  - a) 2"
  - b) 3"
  - c) 4"
  - d) 6"

13. PRIVATE INTERCEPTOR MAIN SEWERS. (a) The connection of a private interceptor main sewer to a public sewer shall be in accordance with the conditions of approval for the public sewer granted by the \_\_\_\_\_
- Municipality
  - State
  - Sanitary District
  - DNR
14. Drain piping located below the ceilings of areas where food, ice or potable liquids are prepared is prohibited.
- true
  - false
15. Every trap and trapped plumbing fixture shall be provided with an individual vent, except as otherwise permitted in this chapter. Vents and venting systems shall be designed and installed so that the water seal of a trap shall be subject to a minimum pneumatic pressure differential equal to one inch of water column.
- true
  - false
16. Where individual vents, relief vents, or other branch vents are required, a vent stack and a stack vent shall be installed to serve all drain stacks of 2 or more branch intervals.
- true
  - false
17. The connection of the vent stack to a drain stack shall be below the lowest branch drain connection to the drain stack.
- true
  - false
18. The connection of a relief vent with another vent may not be less than \_\_\_\_ above the next higher floor level where the plumbing fixtures are vented, but in no case lower than \_\_\_\_ above the elevation of the highest flood level rim of any fixture served by the vent.
- 38", 2"
  - 38", 3"
  - 38", 4"
  - 36", 2"
19. A building drain with a change in elevation of \_\_\_\_ feet or more and at an angle of 45% or more from the horizontal shall be provided with a relief vent.
- 6
  - 8
  - 12
  - 16
20. The connection of the relief vent to the building drain shall be by means of a wye pattern fitting installed within \_\_\_\_ feet upstream of the top of the change in elevation.
- 1
  - 2
  - 3
  - 4
21. Sanitary sumps shall be provided with a vent connecting either to the sump below the drain inlet or to the drain inlet within 12" of the sump.

- a) true
  - b) false
22. In lieu of providing individual vents, a horizontal drain to which at least 2 but not more than 8 wall outlet fixtures or at least 2 but not more than 8 floor outlet fixtures, other than blowout type fixtures and wall-outlet carrier type water closets, are connected to the same horizontal branch drain, may be vented by a \_\_\_\_\_ vent.
- a) circuit
  - b) horizontal wet
  - c) common
  - d) a, b, & c
23. A kitchen sink served by a common vent may not be by means of a double sanitary tee fitting.
- a) true
  - b) false
24. Wall outlet fixtures may be vented by extending an individual vent, vertical wet vent or a common vent as high as possible under the fixture enclosure and returning the vent vertically downward and connecting the vent to the fixture drain or branch drain by means of a wye pattern fitting. This vent is called a?
- a) Island vent
  - b) Loop vent
  - c) Return vent
  - d) a, b & c
25. Drainage fittings shall be used on all sections of the vent pipe below the floor level and a minimum slope of  $\frac{1}{4}$ " per foot to the drainage point shall be provided. This describes a \_\_\_\_\_.
- a) Island vent
  - b) Loop vent
  - c) Return vent
  - d) a, b & c
26. Which one of the below statements would be incorrect for a vertical wet vent?
- a) No other fixtures may discharge into the vertical drain pipe above or between the 2 wall outlet fixtures. Additional fixtures may discharge into the vertical drain pipe below the 2 wall outlet fixtures.
  - b) A branch vent shall connect to the vertical drain pipe immediately above the higher fixture drain connection.
  - c) The drain between the 2 fixtures shall be at least one pipe size larger than the upper fixture drain, but not smaller than 2" in diameter.
  - d) The higher fixture drain may serve a water closet or urinal.
27. A drain from a lavatory or lavatories which are either provided with individual vents or a common vent may serve as the wet vent for not more than \_\_\_ bathtubs or showers and not more than \_\_\_ water closets
- a) 2, 3
  - b) 2, 2
  - c) 3, 3
  - d) 3, 2
28. Horizontal Wet Vent: The wet vent shall be at least 2" in diameter. No more than \_\_\_ drainage fixture units may discharge into a 2" diameter wet vent.

- a) 2
- b) 3
- c) 4
- d) 5

29. Vertical Wet Vent: The drain between the 2 fixtures shall be at least one pipe size larger than the upper fixture drain, but not smaller than \_\_\_ in diameter.

- a) 2
- b) 3
- c) 4
- d) a, b & c

30. Vent header pipe sizes shall be determined in accordance with Table \_\_\_\_\_ with the number of drainage fixture units being the sum of the fixture unit loads of the stacks vented through that portion of the header.

- a) 82.31-3
- b) 82.31-2
- c) 82.31-1
- d) 82.30-3

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<u>1</u>	a b c d	<u>11</u>	a b c d	<u>21</u>	a b c d
<u>2</u>	a b c d	<u>12</u>	a b c d	<u>22</u>	a b c d
<u>3</u>	a b c d	<u>13</u>	a b c d	<u>23</u>	a b c d
<u>4</u>	a b c d	<u>14</u>	a b c d	<u>24</u>	a b c d
<u>5</u>	a b c d	<u>15</u>	a b c d	<u>25</u>	a b c d
<u>6</u>	a b c d	<u>16</u>	a b c d	<u>26</u>	a b c d
<u>7</u>	a b c d	<u>17</u>	a b c d	<u>27</u>	a b c d
<u>8</u>	a b c d	<u>18</u>	a b c d	<u>28</u>	a b c d
<u>9</u>	a b c d	<u>19</u>	a b c d	<u>29</u>	a b c d
<u>10</u>	a b c d	<u>20</u>	a b c d	<u>30</u>	a b c d

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