

Plumbing Exam

Answer sheet is at the bottom of this exam

Name: _____

Date: _____

Score: _____

Carefully read each question and then circle the letter of the best answer.

1. All strainer plates on drain inlets shall be designed and installed so that all openings are not greater than ___ inches in the least dimension.
 - a. .5
 - b. .25
 - c. .75
 - d. .3

2. The capacity of a grease trap connected to an appliance discharging 12 gpm shall be minimum ___pounds.
 - a. 12
 - b. 18
 - c. 20
 - d. 24

3. A stack vent handling 620 dfu's with a developed length of 75 feet shall be ___ inches minimum diameter.
 - a. 2
 - b. 2.5
 - c. 3
 - d. 4

4. Piping that is required to be identified, shall be identified at a maximum interval of ____ feet, and at each point where the pipe passes through a wall, floor or roof.
- a. 10
 - b. 25
 - c. 15
 - d. 12
5. Copper pipe shall be horizontally supported at a maximum of ____ feet intervals.
- a. 5
 - b. 6
 - c. 12
 - d. 10
6. A branch interval generally corresponds to a distance of one story, but not less than ____ feet between horizontal branches connected to a stack.
- a. 6
 - b. 7
 - c. 8
 - d. 10
7. The maximum discharge to a relief vent shall be ____ dfu.
- a. 2
 - b. 4
 - c. 12
 - d. 24
8. The minimum allowed size of a 1/8" sloped building drain is _____ inches.
- a. 1-1/4
 - b. 2
 - c. 3
 - d. 8

9. The purpose of a vent is _____.
- a. to protect the trap seal
 - b. to low the drain to drain
 - c. prevent the drain from gurgling
 - d. provide an extra route for rodding
10. A 20 ft. length of pipe with slope per foot of 1/4" will produce a drop of ___ inches.
- a. 3
 - b. 4
 - c. 5
 - d. 6
11. For building drains, or horizontal waste or soil lines cleanouts are required for each change in direction greater than ___ degrees.
- a. 30
 - b. 45
 - c. 60
 - d. 90
12. Separate facilities shall not be required for_____.
- a. an office with 18 employees
 - b. a shop with 12 employees
 - c. A mercantile business with 55 occupants
 - d. An airport with 30 passengers
13. Water heaters (except those resistant to flammable vapor ignition) having an ignition source shall be elevated such that the source of ignition is not less than ___ inches off a garage floor.
- a. 12
 - b. 18
 - c. 20
 - d. 24

14. A clinical sink shall have the flushing and cleansing characteristics of ____.
- a. a commercial sink
 - b. a water closet
 - c. a can wash
 - d. a bird bath
15. A bathroom requiring seven water closets may substitute a maximum of ____ water closets with urinals.
- a. 2
 - b. 3
 - c. 4
 - d. 5
16. The minimum depth of a trap seal shall be ____.
- a. 1"
 - b. 2"
 - c. 3"
 - d. 4"
17. Plumbing products required by the Code are ____.
- a. required to be third party certified
 - b. required to be third party tested
 - c. not required to be third party certified
 - d. not required to be third party tested
18. Load bearing studs may be cut or notched a maximum of ____% of its width.
- a. 10
 - b. 15
 - c. 20
 - d. 25

19. A Light industrial business with 150 female employees must have a minimum of ____ water closets available.
- a. 5
 - b. 4
 - c. 3
 - d. 2
20. A 2-inch diameter iron gas pipe shall have approximately ____ inche(s) threaded.
- a. $\frac{3}{4}$
 - b. $\frac{7}{8}$
 - c. 1
 - d. $1\text{-}\frac{1}{2}$
21. A $\frac{3}{4}$ inch diameter iron gas pipe shall be threaded with approximately ____ threads.
- a. 8
 - b. 9
 - c. 10
 - d. 12
22. Which of the following gas piping systems must be pressure tested?
- a. new installations
 - b. minor repairs
 - c. additions
 - d. all of the above
23. If the yearly fuel cost to operate a water heater with an overall efficiency of 60% is \$500 what would the savings be using an 80% efficient water heater?
- a. \$125
 - b. \$100
 - c. \$80
 - d. \$75

24. When an acceptance of a contract changes any of the terms, it is considered ____.
- a. binding
 - b. voided
 - c. a counter-offer
 - d. illegal
25. In order to cover employee bonuses totaling \$45,000, how much more revenue is needed if your company is earning an average 20% gross profit?
- a. \$90,000
 - b. \$180,000
 - c. \$250,000
 - d. \$225,000

Answer Sheet

1. a. 304.2
2. d. Table 1003.3.4.1
3. d. Table 916.1
4. b. 608.8.1
5. c. Table 308.5
6. c. 202 definition of branch interval
7. b. 911.4.2
8. c. Table 710.1(10
9. a. 901.2
10. c.
11. b. 708.3.3
12. b. 403.2 exceptions
13. b. 502.2
14. b. 414.1
15. c. $419.2 (7 \times .67 = 4.69)$ round down to 4
16. b. 1002.4
17. a. Table 303.4
18. d. 307.2.2
19. a. Table 403.1
20. c. Table 403.9.2
21. c. Table 403.9.2
22. d. 406.1.1 and 406.1.2 exception
23. a. $(60/80) \times 500 = \$375$ new operating cost $500-375=\$125$ savings
24. c.
25. d. $\$45,000/.20=\$225,000$