



U.S. Fire Administration / National Fire Academy

Coffee Break's Over!

Self-Evaluation

(Answers are on last page. Reference numbers in parentheses pertain to the Coffee Break Training bulletin of the same number.)

Student Name _____

Student ID # _____

Date _____

1. According to the National Electrical Code® (NFPA 70), a _____ is an enclosed channel of metal or metallic materials designed expressly for holding wires, cables or bus-bars. (Reference 2007-40)
 - a. cableway
 - b. raceway
 - c. metallic tube
 - d. wiremold

2. Fire escape stairs should be designed to support the dead load of the stair system plus a live load of at least _____ psf (Pa). (Reference 2007-42)
 - a. 100, (4,788)
 - b. 150, (7,182)
 - c. 175, (8,379)
 - d. 200, (9,576)

3. Dry sprinklers that are in service for _____ years must be tested for performance or replaced. (Reference 2007-41)
 - a. 10
 - b. 12
 - c. 15
 - d. 8

4. When selecting sprinklers from an existing sprinkler system for performance testing in accordance with NFPA 25, *Standard for the Inspection, Testing, and Maintenance of Water-Based Fire Protection Systems*, a “representative sample” consists of at least _____ sprinklers or _____ percent of the number of sprinklers per sample, whichever is greater. (Reference 2007-41)
 - a. 4, 5
 - b. 5, 4
 - c. 5, 10
 - d. 4, 1

5. Firestop systems in wall assemblies must have an F rating of at least _____. (Reference 2007-51)
 - a. 20 minutes.
 - b. 30 minutes.
 - c. 60 minutes.
 - d. 120 minutes.

6. Openings, such as windows or doors, near a fire escape should be protected with approved fire protective assemblies having a minimum _____-minute fire-resistance rating. (Reference 2007-42)
 - a. 20
 - b. 30
 - c. 45
 - d. 60

7. NFPA 13, *Standard for the Installation of Sprinkler Systems*, requires that the following person(s) be responsible for conducting water flow tests for sprinkler design. (Reference 2007-44)
 - a. Property owner.
 - b. Sprinkler designer.
 - c. Fire protection engineer.
 - d. a and b above.
 - e. None of the above.

8. Electrical cable or raceway that is protected from penetration by a steel plate or bushing at least 1/16-inch (1.6 mm) thick and is long and wide enough to cover the area of the wiring may be installed within 1-1/4-inch (32 mm) of the nearest edge of a wood stud. (Reference 2007-40)
- T or F**
9. In the event of a power failure, an emergency power system lasting not less than 90 minutes must automatically illuminate (Reference 2007-52)
- a. aisles and unenclosed egress stairways in rooms and spaces that require two or more means of egress.
 - b. corridors, exit enclosures, and exit passageways in buildings that are required to have two or more means of egress.
 - c. exterior egress components at other than the level of exit discharge until exit discharge is accomplished for buildings required to have two or more means of egress.
 - d. interior exit discharge elements in buildings that are required to have two or more means of egress.
 - e. all of the above.
10. Fire sprinklers that have been in service 75 years or more should be replaced, or a representative sample from one or more sample areas should be tested for performance. (Reference 2007-41)
- T or F**
11. Egress door operating mechanisms must be located between ___ inches (cm) and ___ inches (cm) above the floor. (Reference 2007-43)
- a. 22 (56), 60 (152)
 - b. 34 (86), 60 (152)
 - c. 48 (122), 60 (152)
 - d. 34 (86), 48 (122)
12. “Panic hardware” and “fire exit hardware” are two terms for identical door hardware components. (Reference 2007-43)
- T or F**
13. Emergency egress illumination levels are permitted to decline to 0.6 foot-candles (6 lux) and a minimum at any point of 0.06 foot-candle (0.6 lux) at the end of 90 minutes. (Reference 2007-52)
- T or F**
14. Access to a fire escape should not pass through an intervening room, and should be directly to a balcony, platform, or landing. (Reference 2007-42)
- T or F**
15. A horizontal cylindrical water tank measures 30 feet long with a 7.48 foot radius. What is its capacity in gallons (liters)? (Reference 2007-45)
- a. 21,222 (80,334).
 - b. 36,318 (137,478).
 - c. 39,443 (149,307).
 - d. 42,444 (160,668).
16. The International Fire Code® allows fire protection in designated historic buildings and structures to be provided in accordance with an approved fire protection plan. (Reference 2007-50)
- T or F**
17. Reinforcing rods in unreinforced masonry buildings always extend from one exterior wall to the opposite exterior wall, and are anchored by stars, S-brackets, plates, or other geometric shapes. (Reference 2007-47)
- T or F**

18. Natural-cut holiday trees should have a stable support, and a water reservoir with at least a ___- day capacity; the water level should cover at least ___ inches (mm) of the trunk. (Reference 2007-49)
- 5, 1 (25)
 - 2, 3 (76)
 - 2, 5 (125)
 - 2, 2 (51)
19. NFPA 1, Uniform Fire Code™, requires that historic buildings be modified where “it is evident that a reasonable degree of safety is not provided.” (Reference 2007-50)
- T or F**
20. The yield point for steel reinforcing rods in unreinforced masonry buildings could be as low as 800 to 1,300 °F (427 to 704 °C). (Reference 2007-47)
- T or F**
21. Which of the following items is not a concern during fire flow testing for sprinkler protection? (Reference 2007-44)
- The testers’ training and qualifications.
 - The distance from the test site to the site where the sprinkler system will be installed.
 - The elevation difference between the test site and the site where the sprinkler system will be installed.
 - The accuracy of the test gauges.
 - The number of engine and ladder companies conducting the test.
22. Through-penetration firestop systems must be installed in accordance with _____ (Reference 2007-51)
- ASTM E814, Standard Test Method for Fire Tests of Through-Penetration Fire Stops.
 - UL 1479, Standard for Safety for Fire Tests of Through-Penetration Fire Stops.
 - ANSI A117.1, Fire Stop Systems for Areas of Refuge.
 - all of the above.
 - a and b above.
23. The operating mechanism for panic hardware must extend across at least _____ percent of the door, and the releasing force may not exceed _____ pounds (N). (Reference 2007-43)
- 50, 15 (67)
 - 50, 30 (134)
 - 75, 15 (67)
 - 90, 15 (67)
24. Emergency egress illumination must be capable of illuminating the exit path an average of ___ foot-candle (___ lux) and a minimum of ___ foot-candle (___ lux) at any point. (Reference 2007-52)
- 1 (11), 0.1 (1)
 - 2 (22), 0.2 (2)
 - 1 (11), 1 (11)
 - none of the above
25. Which of the following are Federal Occupational Safety and Health Administration (OSHA) “nationally recognized testing laboratories?” (Reference 2007-46)
- Applied Research Laboratories, Inc.
 - Curtis-Straus LLC.
 - National Technical Systems, Inc.
 - TUV America, Inc.
 - all of the above.

Answers: 1. b; 2. a; 3. a; 4. d; 5. c; 6. c;
7. e; 8. T; 9. e; 10. T; 11. d; 12. F; 13. T;
14. T; 15. c; 16. T; 17. F; 18. d; 19. F; 20. T; 21. e;
22. e; 23. a; 24. a; 25. e