

U.S. Fire Administration / National Fire Academy

*Coffee Break's Over!***Self-Evaluation**

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

1. The fire command center constructed in highrise buildings must be separated by a fire barrier having a minimum two-hour fire resistance rating. (Reference 2006-4)

T or F

2. Heat of combustion is a measurement of the amount of energy released from a burning material over a specific time period. (Reference 2006-9)

T or F

3. Through-penetration fire stop systems are rated to slow heat and fire spread. Which of the following statements is true? (Reference 2005-3)

- a. The T rating refers to temperature limitations; the F rating refers to fire spread control.
- b. The F rating refers to flammability ranges, the T rating refers to thickness of the caulking material.
- c. The F rating refers to temperature limitations; the T rating refers to fire spread control.

- d. The T rating refers to temperature limitations; the F rating refers to flammability ranges.

4. You visit the local “big box” retailer to buy a case of bottled water for your co-workers. As you walk down the store aisles, you look along the back-to-back space between two racks of the double rack storage array. This space is called the: (Reference 2006-3)

- a. longitudinal flue space.
- b. transverse flue space.
- c. parallel flue space.
- d. flow-through flue space.
- e. cantilever flue space.

5. The ICC building and fire codes require that stair enclosures serving more than ____ stories have stairway identification signs. In the NFPA building and fire codes, stairway identification signs are required for enclosures ____ or more stories. (Reference 2006-6)

- a. 3, 5
- b. 4, 5
- c. 5, 5
- d. 3, 4

6. The female swivel on a fire department connection for a manual standpipe system should be lubricated with: (Reference 2006-11)
- axle grease
 - petroleum jelly
 - paste wax
 - powdered graphite
 - none of the above
7. When spray sprinklers are installed above an open grid ceiling in an Ordinary Hazard occupancy, and the sprinkler spacing is less than 10 feet by 10 feet, the minimum clearance between the sprinkler deflector and the top of the ceiling must be: (Reference 2005-5)
- 12 inches
 - 18 inches
 - 24 inches
 - 36 inches
 - None of the above. Spray sprinklers are not permitted above open grid ceilings.
8. The International Fire Code[®] requires approved temporary fire access roads during construction. The road must be constructed to extend to within _____ feet of temporary or permanent fire department connections. (Reference 2005-4)
- 25 feet
 - 50 feet
 - 100 feet
 - 150 feet
9. In Business (Group B) and Mercantile (Group M) occupancies, the minimum clear aisle width in public areas is _____ inches. (Reference 2005-2)
- 18
 - 22
 - 36
 - 44
10. Building openings must be at least _____ feet from the horizontal discharge from a grease- or smoke-laden vapor producing commercial kitchen duct outlet. (Reference 2006-5)
- 1 ½ (18 inches)
 - 2 (24 inches)
 - 3 (36 inches)
 - 4 (48 inches)
 - 5 (60 inches)
11. Smoke alarms should not be installed on a wall within _____ inches of the ceiling, or on a ceiling within _____ inches of the wall. (Reference 2005-1)
- | | |
|----------|----------|
| a. 4, 4 | b. 4, 12 |
| c. 12, 4 | d. 6, 6 |
12. Aisles in rack storage arrays are required to: (Reference 2006-7)
- provide emergency egress and fire-fighter access
 - minimize the likelihood of fire spreading from one rack to another
 - provide a place for temporary storage
 - allow sprinkler water to reach the face of stored combustibles
 - a, b and d

13. During mechanical restocking, the minimum clear aisle width in a rack storage array should be ___ inches. (Reference 2006-7)
- a. 24 b. 36
c. 44 d. 48
e. 96
14. The branch circuit supplying primary power to a fire alarm control panel may also be used for lights, receptacles and small appliances as long as the total load does not exceed the rated amperage. (Reference 2006-8)
- T or F**
15. Pyrolysis is the heat-created decomposition of combustible materials into simpler compounds that can be ignited. (Reference 2006-9)
- T or F**
16. Given a standard spray automatic sprinkler with a K factor of 8.0, and a flowing pressure of 64 psi, how many gallons per minute will the sprinkler deliver? (Reference 2006-2)
- a. 24 gpm b. 64 gpm
c. 84 gpm d. 96 gpm
e. None of the above.
17. When conducting a fire safety inspection, there is no need to inspect the exterior of the building unless there are hazardous or combustible materials stored next to the structure. (Reference 2006-10)
- T or F**
18. Water accumulations in the fire department connection for an automatic sprinkler system may indicate: (Reference 2006-11)
- a. a leaky check valve
b. a faulty automatic drain
c. a main control valve has been closed
d. a and b
e. all of the above
19. NFPA 1, Uniform Fire Code™, requires approved temporary fire access roads during construction. The road must be constructed to extend to within ___ feet of a single exit door that provides access to the building's interior. (Reference 2005-4)
- a. 25 feet b. 50 feet
c. 100 feet d. 150 feet
20. In Business (Group B) and Mercantile (Group M) occupancies, the minimum clear aisle width in non-public areas providing egress from a single office or workstation is _____ inches. (Reference 2005-2)
- a. 18 b. 28
c. 36 d. 44

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