

FIRE ALARM

HOMEWORK-1

WHALEN

Multiple Choice

Identify the choice that best completes the statement or answers the question.

- _____ 1. **NFPA-70 (2017 NEC) 760.41 (B) 760.121 (B) NFPA-72 (2016) 10.6.5.2.3**
The disconnecting means (branch circuit) for the primary power of a fire alarm system must be _____ in color.
- a. black
 - b. orange
 - c. red
 - d. white
- _____ 2. The most appropriate type of detection in dwelling garages, unfinished attics, or crawl spaces is _____.
- a. CO detection
 - b. heat detection
 - c. smoke detection
 - d. none of the above
- _____ 3. **NFPA-72 (2016) 3.3.160**
Which device, when actuated and interconnected to another similar device, will cause the other device to actuate?
- a. Heat detector
 - b. Multiple-station alarm
 - c. Single-station alarm
 - d. Smoke detector
- _____ 4. The primary means of detection in dwellings is _____ detection.
- a. carbon monoxide
 - b. heat
 - c. radiant energy
 - d. smoke
- _____ 5. **NFPA-72 (2016) 29.8.3.4 (10)**
Smoke alarms or detectors in a basement must be _____.
- a. mounted at the top of the stairs
 - b. mounted in the stairwell
 - c. mounted on the basement ceiling near the stairs
 - d. photoelectric type
- _____ 6. **NFPA-72 (2016) 10.6.7.2.1.2**
An in-building fire emergency voice/alarm communications system is usually found in a _____.
- a. dwelling
 - b. high-rise building
 - c. small office building
 - d. warehouse
- _____ 7. **NFPA-72 (2016) 3.3.255**
Which of the following circuit is the most common addressable circuit type?
- a. IDC
 - b. NAC
 - c. SLC
 - d. SLD
- _____ 8. **NFPA-70 (2017 NEC) TABLE 760.176(D)**
The proper non-power-limited cable for riser use is _____.
- a. FPLP
 - b. FPLR
 - c. NPLFP
 - d. NPLFR

- 9. **NFPA-72 (2016) Page-18**
In NFPA-72, an asterisk (*) following a paragraph number indicates:
 - a. An option requirement
 - b. Text deleted from a prior edition
 - c. Explanatory material can be found in Annex A
 - d. New text has been added since prior addition

- 10. **NFPA-72 (2016) 17.14.8.5**
The maximum travel distance on the same floor to reach a manual fire alarm box is:
 - a. 150 ft
 - b. 200 ft
 - c. 150 ft for un sprinkled buildings and 200 ft for sprinkled buildings
 - d. Not greater than the maximum travel distance to an exit as required by the building or life safety codes

- 11. **NFPA-72 (2016) 10.6.10.1.1**
Secondary power supply batteries are required to be marked with:
 - a. The systems ampere-hour requirements
 - b. The maximum available short circuit current
 - c. The date Installed
 - d. The date manufactured

- 12. **NFPA-72 (2016) 10.6.7.2.1.1**
Battery calculations for a protected premises fire alarm system require how much reserve capacity as safety margin?
 - a. 10%
 - b. 20%
 - c. 5 amp-hours
 - d. No factory of safty is mandated by the code

- 13. **NFPA-72 (2016) 21.4.3**
The maximum time delay for operation of a sprinkler waterflow switch used for elevator power shut down is:
 - a. 10 seconds
 - b. 45 seconds
 - c. 90 seconds
 - d. No time delay mechanism is permitted

- 14. **NFPA-72 (2016) 17.12.2**
Waterflow switches are permitted to have a time delay, or retard, up to _____.
 - a. 30 seconds
 - b. 60 seconds
 - c. 90 seconds
 - d. 120 seconds

- 15. **NFPA-72 (2016) 17.14.5**
The operable part of a manually activated alarm-initiating device shall not be less than ____ and not more than ____ from the finished floor.
 - a. 36" / 48"
 - b. 24" / 36"
 - c. 42" / 48"
 - d. 48" / 60"

- 16. **NFPA-72 (2016) 17.14.8.4**
Manual fire alarm boxes shall be located within _____ feet of each exit doorway on each floor.
 - a. 4
 - b. 5
 - c. 8
 - d. 10