

Name: MAKE-UP Class: TC-2A&2B Date: 3-1-18

TC-2

HOMEWORK

SHOP-5

WHALEN

**Multiple Choice**

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

- \_\_\_\_ 1. The minimum voltage rating of a power limited Fire Alarm cable is \_\_\_\_.
- a. 12 volts
  - b. 24 volts
  - c. 150 volts
  - d. 300 volts
- \_\_\_\_ 2. A rectifier converts?
- a. AC to DC
  - b. Voltage to Amperage
  - c. Millivolts to Voltage
  - d. AC to Horsepower
- \_\_\_\_ 3. Nonpower-limited fire protection signaling circuit cables installed in a duct used for environmental air must be of what type?
- a. FPLP
  - b. NPLFP
  - c. THHN
  - d. TW
- \_\_\_\_ 4. Class 2 Division 1 is defined as locations with
- a. non-flammable liquids
  - b. flammable gases
  - c. combustible dust
  - d. easily ignitable fibers
- \_\_\_\_ 5. Cables run through bored holes in wood members of building shall be kept at least how far from the nearest edge?
- a. 1"
  - b. 1 1/2 "
  - c. 1 1/4"
  - d. 2"
- \_\_\_\_ 6. Notification appliances used outdoors may result in \_\_\_\_ unless listed for such use.
- a. ground faults
  - b. open circuits
  - c. both a and b
  - d. none of the above
- \_\_\_\_ 7. Audible notification appliances must be mounted \_\_\_\_ above the finished floor and not less than \_\_\_\_ from the ceiling.
- a. 80" / 4"
  - b. 90" / 4"
  - c. 80" / 6"
  - d. 90" / 6"
- \_\_\_\_ 8. A speaker tapped at its highest setting may suffer from distortion.
- a. True
  - b. False
- \_\_\_\_ 9. Which article of the NEC covers burglary system wiring?
- a. Article 725
  - b. Article 727
  - c. Article 760
  - d. None of the above
- \_\_\_\_ 10. Failure to remove conduit burrs usually results in ground faults.
- a. True
  - b. False
- \_\_\_\_ 11. NEC \_\_\_\_ requires electrical penetrations to be firestopped.
- a. 320.21
  - b. 300.21
  - c. 321.20
  - d. 321.21

Name: \_\_\_\_\_

- \_\_\_\_\_ 12. A 27 k $\Omega$  resistor would have which colors on its first 3 bands?
- a. red, violet, orange
  - b. yellow, violet, red
  - c. orange, yellow, violet
  - d. red, white, blue
- \_\_\_\_\_ 13. Which of the following signals is produced by a fire alarm system?
- a. Trouble
  - b. Supervisory
  - c. Alarm
  - d. all of the above
- \_\_\_\_\_ 14. Opens and grounds on a fire alarm circuit will result in a(n) \_\_\_\_\_ signal.
- a. alarm
  - b. guard's tour
  - c. supervisory
  - d. trouble
- \_\_\_\_\_ 15. Duct smoke detectors are sometimes permitted to cause a(n) \_\_\_\_\_ signal in place of an alarm signal.
- a. guard's tour
  - b. MNS
  - c. supervisory
  - d. trouble
- \_\_\_\_\_ 16. Signaling line circuits monitor for integrity by polling or interrogating field devices.
- a. True
  - b. False
- \_\_\_\_\_ 17. Which circuit class is considered as "fail-safe"?
- a. Class A
  - b. Class B
  - c. Class C
  - d. Class D
- \_\_\_\_\_ 18. Secondary power supplies must supply power to an in-building fire emergency voice/alarm communications fire alarm system for a minimum of \_\_\_\_\_.
- a. 24 hours of standby followed by 15 minutes of alarm
  - b. 24 hours of standby followed by 5 minutes of alarm
  - c. 48 hours of standby followed by 15 minutes of alarm
  - d. 48 hours of standby followed by 5 minutes of alarm
- \_\_\_\_\_ 19. 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
- \_\_\_\_\_ 20. Which of the following devices is used to directly detect flames?
- a. Heat detector
  - b. Radiant energy-sensing fire detector
  - c. Smoke detector
  - d. Supervisory
- \_\_\_\_\_ 21. The most appropriate type of detection for a smoldering fire is a(n) \_\_\_\_\_.
- a. ionization-type detector
  - b. photoelectric-type smoke detector
  - c. radiant energy-sensing fire detector
  - d. rate-of-rise heat detector
- \_\_\_\_\_ 22. Which type of smoke detector works best in large open areas?
- a. Ionization-type
  - b. Projected beam-type
  - c. Spot-type
  - d. All of the above