

# **Fire Alarm Shop**

## **3<sup>rd</sup> Year Electrical**

### **Group: C**

- ☐ LMS Fire Alarm Homework Lessons 1 and 2 are due November 27<sup>th</sup> by 6:00 AM. These grades will count as your midterm grade.
  
- ☐ LMS Fire Alarm Homework Lessons 3 and 4 are due December 29<sup>th</sup> by 6:00 AM.
  
- ☐ LMS Fire Alarm Homework Lessons 5 and 6 are due January 10<sup>th</sup> by 6:00 AM.

If you have any question you can email me:  
[dwjatc103@gmail.com](mailto:dwjatc103@gmail.com)

Name: MAKE-UP Class: EL-3C Date: 12-1-17

ID: A

**FIRE ALARM**

**EL-3C**

**HOMEWORK-3**

**WHALEN**

**You are required to pass this lesson in next week you are in the school.**

**Multiple Choice**

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

**Highlight where you found the answers in you code books.**

- \_\_\_\_ 1. **NFPA-72 (20136) 18.3.4.1**  
Appliances subject to \_\_\_\_\_ damage shall be suitably protected.  
a. emotional c. electrical  
b. mechanical d. water
- \_\_\_\_ 2. **NFPA-72 (2016) 18.4.1.1**  
An average ambient sound level greater than \_\_\_\_\_ dBA shall require the use of a visible notification appliance (s).  
a. 65 c. 105  
b. 75 d. 110
- \_\_\_\_ 3. **NFPA-72 (2016) 18.4.1.2**  
The total sound pressure level produced by a combination of ambient sound pressure level with all audible notification appliances operating shall not exceed \_\_\_\_\_ dBA at the minimum hearing distance.  
a. 65 c. 105  
b. 75 d. 110
- \_\_\_\_ 4. **NFPA-72 (2016) 18.4.2.1**  
The alarm audible signal pattern used to notify building occupants of the need to evacuate \_\_\_\_\_ be the standard alarm evacuation signal consisting of a three-pulse temporal pattern.  
a. can c. may  
b. shall d. can't
- \_\_\_\_ 5. **NFPA-72 (2016) 18.4.3.1**  
*Public mode* requires \_\_\_\_\_ dB above the average ambient sound level measured \_\_\_\_\_ feet above the floor.  
a. 10 / 5 c. 15 / 10  
b. 10 / 10 d. 15 / 5
- \_\_\_\_ 6. **NFPA-72 (2016) 18.4.4.1**  
*Private mode* requires \_\_\_\_\_ dB above the average ambient sound level measured \_\_\_\_\_ feet above the floor.  
a. 10 / 5 c. 15 / 10  
b. 10 / 10 d. 15 / 5
- \_\_\_\_ 7. **NFPA-72 (2016) 18.4.5.1**  
In *sleeping areas* shall have a sound level of at least \_\_\_\_\_ dBA above the average ambient sound level or at least \_\_\_\_\_ dBA which ever is greater, measured at the pillow level  
a. 10 / 65 c. 30 / 65  
b. 20 / 65 d. 15 / 75

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

ID: A

- \_\_\_\_\_ 8. **NFPA-72 (2016) 18.4.8.1**  
If ceiling heights allow, wall-mounted audible notification appliances shall have their tops above the finished floors at heights of not less than \_\_\_\_\_ inches and below the finished ceiling at a distance not less than 6 inches.
- |       |        |
|-------|--------|
| a. 90 | c. 100 |
| b. 95 | d. 110 |
- \_\_\_\_\_ 9. **NFPA-72 (2016) 18.5.5.1**  
If ceiling heights allow, wall-mounted notification appliances for public mode visible signaling shall have their entire lens above the finished floors at heights of not less than \_\_\_\_\_ inches and not greater than 96 inches.
- |       |       |
|-------|-------|
| a. 76 | c. 90 |
| b. 80 | d. 96 |
- \_\_\_\_\_ 10. **NFPA-72 (2016) 18.5.5.4.1 Table and 18.5.5.4.3**  
When installing one speaker strobe on a wall in the center (the halfway distance), what candela strobe setting will be the minimum required to cover a 52' x 52' dimensioned room?
- |       |        |
|-------|--------|
| a. 15 | c. 110 |
| b. 75 | d. 177 |
- \_\_\_\_\_ 11. **NFPA-72 (2016) 18.5.5.4.1(b) Table**  
When installing one speaker strobe in the center of a 10' ceiling what candela strobe setting will be the minimum required to cover a 30' x 30' dimensioned room?
- |       |        |
|-------|--------|
| a. 15 | c. 75  |
| b. 30 | d. 110 |
- \_\_\_\_\_ 12. **NFPA-72 (2016) 18.5.5.5.5**  
The installation of visible notification appliance in a corridor shall be located not more than \_\_\_\_\_ feet from the end of the corridor.
- |       |       |
|-------|-------|
| a. 5  | c. 12 |
| b. 10 | d. 15 |
- \_\_\_\_\_ 13. **NFPA-72 (2016) 18.5.5.5.5**  
The installation of visible notification appliances in a corridor shall be located not greater than \_\_\_\_\_ feet between appliances.
- |       |        |
|-------|--------|
| a. 50 | c. 100 |
| b. 75 | d. 200 |
- \_\_\_\_\_ 14. **NFPA-72 (2016) 18.5.5.7.2 Table**  
The installation of wall mounted visible notification appliances in a sleeping area shall be within 16' of the pillow. The strobes candela shall be \_\_\_\_\_ if mounted below finished ceiling a distance of 24" or more and \_\_\_\_\_ if installed less than 24" below finished ceiling.
- |           |            |
|-----------|------------|
| a. 75/110 | c. 177/110 |
| b. 75/177 | d. 110/177 |
- \_\_\_\_\_ 15. **NFPA-72 (2016) 18.5.5.5.5**  
The maximum distance between high-intensity visible notification appliances is \_\_\_\_\_.
- |       |        |
|-------|--------|
| a. 50 | c. 100 |
| b. 75 | d. 200 |