

EXAM 1:

NFPA-111

- 1) **Shall.** Indicates a mandatory requirement.

3.3.8.1* *Emergency Power Supply (EPS).* The source of electric power of the required capacity and quality for an emergency power supply system (EPSS). [110, 2016]

- 2)
- 7.1.4** Where normal power is available, the EPS shall serve Level 1 and Level 2 system loads and shall be permitted to serve additional loads, provided that, on failure of the normal power, the additional loads are automatically dropped to ensure that the EPS has sufficient capacity to serve the Level 1 and Level 2 loads.
- 3)
- 4) Duration of stored energy to supply power-(Answers- 1hr, 2hr, 30min, 15min)

NFPA-110

- 5) **Day Fuel Tank.** A fuel tank, located inside a structure that provides fuel to the engine.
- 6) **Class 6** provides power till what duration. (Answers- 2hr, 6hr, 3hrs, 4hrs)
- 7) One question regarding switches
- 8) One question regarding lighting

8.4.9.5.1* For a diesel-powered EPS, loading shall be not less than 30 percent of the nameplate kW rating of the EPS. A supplemental load bank shall be permitted to be used to meet or exceed the 30 percent requirement.

- 9)
- 10) Diesel generator sets in service shall be exercised at least once monthly.

NFPA-72

- 11) One question regarding Auxiliary alarm box

8.4.9.5.1* For a diesel-powered EPS, loading shall be not less than 30 percent of the nameplate kW rating of the EPS. A supplemental load bank shall be permitted to be used to meet or exceed the 30 percent requirement.

- 12)
- 13) One question regarding Gas detector.

- 14) A test plan shall be developed to clearly establish the scope of testing for the fire alarm system.
- 15) Emergency communications equipment –frequency of maintenance.

NFPA-70

Explosionproof Equipment. Equipment enclosed in a case that is capable of withstanding an explosion of a specified gas or vapor that may occur within it and of preventing the ignition of a specified gas or vapor surrounding the enclosure by sparks, flashes, or explosion of the gas or vapor within, and that operates at such an external temperature that a surrounding flammable atmosphere will not be ignited thereby.

- 16)
- 17) Fire alarm schematic for 2B+G+10.

EXAM : 2

1. EPSS (Emergency Power Supply system) will not cover the following system.
Ans: Utility Service
NFPA 110 (Section 1.1.3)
2. Which of the following is a NFPA recommendation but not mandatory?
Options: a) Labelled b) Listed c) Should d) Shall
Ans: Should
NFPA 110 (Section 3.2)
3. A fuel tank located in a separate room, separated from other equipment?
Ans: Enclosed Fuel Tank.
NFPA 110 (Section 3.3.6.2)
4. What is a Class 2 type EPSS?
Ans: Provides power supply for 2hours
NFPA 110 (Table 4.1a)
5. What is the minimum plinth foundation required for an EPSS?
Ans: 150mm (6inch)
NFPA 110 (Section 7.4.1.1)
6. Diesel Generator sets shall be tested at least?
Ans: Once in a Month
NFPA 110 (Section 8.4.2)
7. A question based on Authority Having Jurisdiction (AHJ)
Ans:
NFPA 111 (Section 3.2.2)
8. A system consists of a battery and provide a clean sinusoidal wave?

Ans: UPS

NFPA 111 (Section 3.3.5.2)

9. When the large open space is located, which type of smoke detectors you will use in Fire alarm system?

Ans: Beam detector

NFPA 72 (Section 3.3.37.1)

10. A question based on Fire Alarm system?

Ans:

NFPA 72 (Section 3.3.105)

11. The purpose for initial and reacceptance tests of fire Alarm and signaling systems is to ensure system operation in accordance with-----

Ans: design documents

NFPA 72 (Section 14.2.1.2)

12. Inspection, testing and maintenance programs shall satisfy the requirements of this code and conform to the -----

Ans: equipment manufacturer's published instructions

NFPA 72 (Section 14.2.2.1.1)

13. Who will be responsible for the alterations or additions of an Existing Fire alarm system?

Ans: Property or Building Owner or owners designated representative

NFPA 72 (Section 14.2.3.1)

14. How frequently the Fuses in a Fire alarm system is tested?

Ans: Annually

NFPA 72 (Section 14.4.3.2)

EXAM 3:

QCDD TEST

Date: 08.11.2017

1. Draw a Single Line Diagram for the Warehouse and Accommodation System on for a complete Fire Alarm System incorporating all the required initiating devices, fire alarm control panel, interface units, wiring details notification appliance system etc

2. Standard for the control units and accessories for fire alarm system.

Ans. ANSI/UL864

3. Engine-driven Generator shall be inspected, tested and maintained.

Ans. Monthly

4. The color code for the Ordinary type rate of rise Heat Detector.
Ans. Uncolor
5. Indicates a recommendation or that which is advised but not required.
Ans. Should
6. Abnormal condition that possesses a threat to life, property or mission and time is available for investigation.
Ans. Pre-alarm condition
7. Fire-gas Detectors and other Fire Detectors shall be tested as prescribed by the manufacturer and as necessary for the application.
Ans. Annually
8. If impairment is not corrected at the conclusion of the system inspection, testing or maintenance, the system owner shall be informed with in.
Ans. 24 Hrs.
9. All Fire Alarm Equipment shall be inspected, tested or maintained.
Ans. Annually
10. Emergency Communications Equipment shall be inspected, tested and maintained.
Ans. Annually
11. Projected Beam type Detectors shall be inspected, tested etc
Ans. Annually
12. Installation, inspection, testing and maintenance of Fire Alarm System shall be carried out as per.
Ans. Manufacturer's Published Documents/Instructions.

EXAM 4:

