ES16C - Pre-Instructional Survey

Name: ______________________________________ Date:_________________

1. What is the purpose of a Burner Management System (BMS)?
   a. Prevent Boiler Explosions
   b. Prevent Boiler Implosions
   c. Prevent damage to equipment and injury
   d. All of the above

2. How many NFPA standards are there for boiler BMS?
   a. one
   b. four
   c. six
   d. eight

3. What is the standard(s) for the design of a boiler BMS?
   a. NFPA 85
   b. NFPA Series 8500
   c. NFPA 86 Series
   d. Pressure vessel codes

4. Does NFPA boiler standards permit multiple fuel burning?
   a. True
   b. False

5. The BMS is the final control system to prevent an incident.
   a. True
   b. False

6. What is the most common contributor of explosions?
   a. Fuel rich condition in a boiler system
   b. Human error
   c. Equipment failure
7. What is the standard for oven furnaces?
   a. NFPA 85
   b. NFPA 86
   c. NFPA 91

8. Three transmitters are required for draft control.
   a. All balanced draft boilers
   b. Multiple burner boilers
   c. Single burner boilers

9. It is satisfactory to use only the master fuel trip logic system for the master fuel trip.
   a. True
   b. False

10. The purge of a multiple burner boiler is complete after:
    a. 5 minutes
    b. 5 air changes
    c. 5 air volume changes and a minimum of 5 minutes
    d. When the operator is ready to admit fuel

11. A temperature sensor is required to detect high temperature in the piping from the pulverizer to the boiler.
    a. True
    b. False

12. Re-purge of a boiler is required on a multiple burner boiler after a:
    a. Lost of all flame
    b. Failure of the first ignitor to ignite
    c. Boiler trip as a result of low water level
    d. All of the above

13. The purge required for a single burner boiler is the same as a multiply burner boiler?
    a. True
    b. False

14. What is considered to be fail safe:
    a. Energize to trip
    b. De-energize to trip
ES16C - Pre-Instructional Survey Answer Sheet

1. d
2. a
3. a
4. a
5. a
6. b
7. b
8. a
9. b
10. c
11. a
12. a
13. b
14. b