

**\*\*\* EXAMINATION \*\*\***

**QUICK RESPONSE SPRINKLERS IN CHEMICAL LABORATORIES**

1. **An acetone is a colorless, mobile, flammable liquid**
  - a) produced directly or indirectly from pentene
  - b) produced directly or indirectly from butene
  - c) produced directly or indirectly from propene
  - d) produced directly or indirectly from nonene
  
2. **A laboratory is a facility that provides controlled**
  - a) conditions in which scientific research may be performed
  - b) conditions in which measurement may be performed
  - c) conditions in which experiment may be performed
  - d) Any of the above
  
3. **A photograph is an image created by light falling**
  - a) on a light-sensitive surface
  - b) on a color-sensitive surface
  - c) on a gas-sensitive surface
  - d) on a electric-sensitive surface
  
4. **A glass is an inorganic product of fusion cooled through**
  - a) its transition to solid state without capitalizing
  - b) its transition to solid state without hydrolyzing
  - c) its transition to solid state without mobilizing
  - d) its transition to solid state without crystallizing
  
5. **Fluorescent light is a gas discharge lamp that**
  - a) uses electricity to excite mercury vapor
  - b) uses electricity to excite mercury poisoning
  - c) uses electricity to excite mercury rising
  - d) uses electricity to excite mercury fluoride
  
6. **Light which exists photons, exhibits properties of**
  - a) both gases and particles
  - b) both oil and particles
  - c) both waves and particles
  - d) both carbides and particles

7. **Carbon monoxide is a colorless gas consists of**
- a) one carbon atom and one oxygen atom
  - b) two carbon atoms and two oxygen atoms
  - c) three carbon atoms and three oxygen atoms
  - d) four carbon atoms and four oxygen atoms
8. **The burning rate is a measure of the**
- a) flame spread rate of a compound
  - b) flame speed rate of a compound
  - c) linear combustion rate of a compound
  - d) heat release rate of a compound
9. **Toxicity is the degree of substance ability**
- a) to increase the life of an exposed organism
  - b) to decrease the life of an exposed organism
  - c) to dilute an exposed organism
  - d) to damage an exposed organism
10. **Oxygen was independently discovered by Carl Wilhelm Scheele**
- a) in Uppsala in 1773 or earlier
  - b) in Wiltshire in 1773 or earlier
  - c) in Uppsala in 1774 or earlier
  - d) in Wiltshire in 1774 or earlier
11. **Calorimetry is the science of measuring**
- a) the heat of chemical elements
  - b) the heat of chemical reactions
  - c) the heat of chemical bonds
  - d) the heat of chemical compounds
12. **A thermocouple is a junction between two different**
- a) metals that produces a radiation
  - b) metals that produces a signal
  - c) metals that produces a voltage
  - d) metals that produces a frequency
13. **Concentration is the measure of how much of a given**
- a) substance is replaced with another substance
  - b) substance is diluted with another substance
  - c) substance is diffused with another substance
  - d) substance is mixed with another substance

14. **The application of water to acetone increases the**
- a) flashpoint of the acetone water mixture
  - b) lethality of the acetone water mixture
  - c) visibility of the acetone water mixture
  - d) combustibility of the acetone water mixture
15. **Flashpoint is the lowest temperature at which**
- a) a flammable liquid will ignite
  - b) a flammable liquid will diffuse
  - c) a flammable liquid will dilute
  - d) a flammable liquid will commute
16. **Dilute is the decrease of the**
- a) concentration of substance
  - b) strength or effect of something
  - c) range of a chemical reaction
  - d) flashpoint of a chemical reaction
17. **A flame is caused by a highly exothermic reaction**
- a) taking place in a heat zone
  - b) taking place in a gaseous zone
  - c) taking place in a thin zone
  - d) taking place in a radiation zone
18. **Carbon dioxide is a chemical compound composed of**
- a) one oxygen atoms bonded to a single carbon atom
  - b) two oxygen atoms bonded to a double carbon atom
  - c) one oxygen atoms bonded to a single carbon atom
  - d) two oxygen atoms bonded to a single carbon atom
19. **The benefits of applying quick response sprinkler technology**
- a) include the potential for improved life safety
  - b) include the potential for improved property protection
  - c) include the potential for reduced system cost
  - d) All of the above
20. **Ducks are used in HVAC system to**
- a) increase and decrease air
  - b) deliver and remove air
  - c) control and clean the air
  - d) stabilize and distribute air

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<b>*** ANSWER SHEET *** U771</b>  QUICK RESPONSE SPRINKLERS IN CHEMICAL LABORATORIES	<u>STATE BOARD</u> <u>COURSE NO.</u> <u>VALUE</u>
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