

## Laboratory Safety Quiz

1. What is the minimum personal protective equipment that **must** be used when handling chemicals in a laboratory?
  - a. Safety glasses
  - b. Lab coat
  - c. Gloves
  - d. All of the above
2. What is the responsibility of the professor or Principal Investigator?
  - a. Ensure that all safety equipment is available for use and working properly.
  - b. Conduct periodic inspections of laboratories that use chemicals.
  - c. Conduct periodic safety training of research staff.
  - d. All of the above.
3. What information can be found on the Material Safety Data Sheet (MSDS)?
  - a. The hazardous ingredients of the chemical.
  - b. The hazardous characteristics of the chemical.
  - c. Exposure control for the chemical.
  - d. All of the above.
4. Who is required to provide MSDS's upon request?
  - a. The employer
  - b. The state of Massachusetts
  - c. The manufacturer or distributor
  - d. Both a and c
5. What color on the NFPA diamond represents health?
  - a. Red
  - b. White
  - c. Blue
  - d. Yellow
6. What does white represent on the NFPA diamond?
  - a. Health
  - b. Special Hazards
  - c. Flammability
  - d. Reactivity
7. What are the Health, Flammability and Reactivity on the NFPA diamond for Acetone?
  - a. 3, 0, 1
  - b. 1, 3, 0
  - c. 0, 1, 3
  - d. None of the above
8. Where are chemicals to be stored with a flammability of 3 or 4?
  - a. In an acid storage cabinet
  - b. On the floor next to a space heater
  - c. In a flammable storage cabinet
  - d. On a shelf above your head

9. What would be an acute health effect?
- burns and blisters on the skin
  - vomiting and nausea
  - cancer
  - Items a and b
10. How would you protect yourself from accidentally ingesting chemicals?
- Not eating or drinking in the laboratory
  - Do not touch your face with your gloved hand
  - Remove gloves and wash hands prior to leaving the lab
  - All of the above
11. Exposure to a gas, vapors or dust in the air would be an example of which of the following?
- Ingestion
  - Absorption
  - Injection
  - Inhalation
12. Which of the following would protect you from chemicals that can become airborne when used?
- Use the chemical in a fume hood
  - Wear a respirator when working with the chemical
  - Ensure there is plenty of ventilation in the laboratory
  - All of the above.
13. What should you check for before using a fume hood?
- Operability of the fume hood
  - That it was certified for use within the last year
  - Sash height
  - All of the above
14. You are replacing an empty gas cylinder with a new cylinder. Which of the following statements are **false** about exchanging the cylinders?
- Prior to removing the used cylinder, remove the pressure regulator
  - As the cylinder is empty, you do not need to place a cap on the cylinder
  - Secure the new cylinder to the wall with the cylinder strap
  - All of the above
15. When transferring liquid nitrogen to a transport container, you should be wearing the follow **except**?
- A face shield and safety glasses
  - Insulated gloves
  - Shorts and sandals
  - A lab coat
16. What is the first thing you should do to with a small spill?
- Call 911
  - Take off your lab coat and safety glasses
  - Contain the spill with absorbent or paper towels
  - None of the above

17. What should you immediately do if you splatter a hazardous chemical on you?
- Go home and take a shower
  - Continue to work on your research
  - Use the Emergency Shower to promptly wash off the chemical
  - Call EH&S
18. The following statements is true about eyewash stations, **except**?
- Always keep access to the eyewash station open in the event of an accident
  - Routinely check the eyewash station for operability
  - Close eyes if the water is too cold until it warms up
  - Hold eyes open to ensure they are cleansed of the chemical
19. Regarding fire safety, you should always do the following, **except**?
- Know where the fire exits are located in advanced in the event of a fire.
  - Ensure that when you exit the lab that everybody is out
  - If you are not comfortable using a fire extinguisher, just exit the lab
  - Leave the door open to the lab to provide fresh air
20. In the event of an emergency what number should you call?
- x911
  - x8176
  - x9191
  - None of the above numbers

Name (print): \_\_\_\_\_

Date: \_\_\_\_\_

Signature: \_\_\_\_\_

email: \_\_\_\_\_