

Laboratory Safety Quiz

Dept. of Chemistry and Biochemistry

Name _____ Date _____

Faculty Advisor _____

Circle the letter indicating the best answer. Return completed quizzes to the Dept. of Chemistry and Biochemistry Office, 160 Hughes.

- (1) Miami University's laboratory safety program is described in the
 - a. Chemical Hygiene Plan
 - b. OSHA Lab Standard
 - c. Prudent Practices in the Laboratory
 - d. All of the above

- (2) Before beginning any laboratory work, you should locate
 - a. Exits
 - b. Fire extinguishers
 - c. Eyewashes and safety showers
 - d. Phones and first aid kits
 - e. All of the above

- (3) A Ground Fault Circuit Interrupter (GFCI) is designed for use in wet areas.
 - a. True
 - b. False

- (4) When not in use, compressed gas cylinders should be
 - a. Stored laying on their side
 - b. Stored standing in the corner of the room
 - c. Stored secured to a bench or a wall
 - d. On a cart

- (5) Sharps such as needles and razor blades
 - a. Should be stored with their sharp edges covered
 - b. Should be placed in a rigid container for disposal
 - c. Must be segregated if used for biological samples
 - d. All of the above

- (6) Chemicals in the laboratory should be stored according to
 - a. Container type
 - b. Hazard class
 - c. Alphabetically
 - d. All of the above

- (7) When working with chemicals,
- Closed toed shoes are recommended, short pants are okay
 - Open toed shoes are okay, long pants are recommended
 - Closed toed shoes are required, short pants are recommended
 - Open toed shoes are not allowed, long pants are recommended
- (8) If you want to decrease the pressure of gas being delivered by a compressed gas cylinder, you should
- Close the big valve on top
 - Close the needle valve
 - Turn the big knob on the regulator clockwise
 - Turn the big knob on the regulator counter-clockwise
- (9) The Material Safety Data Sheet (MSDS) is the most comprehensive source of information about a chemical, and is required by OSHA.
- True
 - False
- (10) When working in a fume hood,
- Store your reagents near your reaction
 - Stand back 4 inches and close the sash as far as possible
 - Open the sash as far as is necessary for you to get your head in the hood
 - Run electrical cords over the sash rest
- (11) Safety goggles should always be worn when chemicals are used in the laboratory. Safety glasses may be worn to protect from physical hazards, if no chemicals are present.
- True
 - False
- (12) The hazards associated with cryogenic materials, such as liquid nitrogen and dry ice, include
- Asphyxiation
 - Explosion
 - Frostbite
 - All of the above
- (13) Food and drink are allowed in the laboratory
- As long as no chemical experiments are actively in progress
 - As long as you do not put them down
 - As long as you get prior permission from EHSO
 - Never

- (14) In case of a chemical splash to your eyes your first response is
- Find a supervisor to report the exposure
 - Report to Student Health Services for an evaluation
 - Thoroughly cleanse your eyes in an eyewash for 15 minutes
 - Run!
- (15) The four major Hazard categories for chemicals are
- Specific Hazards, Reactivity, Health, Boiling Point
 - Flammability, Health, Reactivity, Specific Hazards
 - Health, Reactivity, Flammability, Specific Gravity
 - None of the above
- (16) Nitrile gloves will protect against all chemicals used in the laboratory
- True
 - False
- (17) If you perceive an unsafe work situation, you should
- Stop work immediately
 - Notify your supervisor, faculty advisor or lab manager
 - None of the above
 - Both A and B
- (18) When leaving a lab, you should
- Remove your gloves, and dispose of them
 - Wash your hands
 - Clean up your work area
 - All of the above
- (19) If a small fire breaks out in the fume hood you are working in, you should
- Close the sash
 - Get the fire extinguisher, if you have been trained to use it
 - Leave the lab and pull the fire alarm
 - B, then A and C
- (20) It is not necessary to segregate laboratory waste (*e. g.*, organic vs. inorganic vs. biological), as it is all disposed of together.
- True
 - False