

Chemical Safety Quiz

(10 Questions)

1. Which of the following can make highly explosive mixtures with air?
 - (A) diethyl ether
 - (B) argon
 - (C) H₂ gas
 - (D) all of the above
 - (E) A & C

2. Important resources for chemical safety in JILA labs include
 - (A) Material Safety Data Sheets
 - (B) the EU's R- and S-Phrases
 - (C) the EPA's Acute Hazard List
 - (D) all of the above

3. Your first priority in dealing with a chemical accident is to
 - (A) apply hydrofluoric acid burn cream
 - (B) attach gas cylinders to a wall
 - (C) life safety
 - (D) neutralize acids until they stop fizzing
 - (E) properly dispose of hazardous waste

4. Simple rules for chemical safety include
 - (A) flushing solvents or other hazardous wastes down the drain with lots of water
 - (B) not discarding broken glassware or syringes in the regular trash
 - (C) posting warning signs near chemical containers when storing them on the floor
 - (D) keeping containers of flammable substances stored closed
 - (E) all of the above
 - (F) B & D

5. Before using a hazardous chemical in the lab, you should
 - (A) ascertain the location of the nearest eye-wash fountain and shower
 - (B) understand your lab's emergency contingency plan
 - (C) review the MSDS to understand its hazards
 - (D) all of the above
 - (E) B & C

6. In case of a major chemical spill releasing toxic or corrosive fumes,

- (A) evacuate the lab immediately and close the door
- (B) immediately call 911 from the lab
- (C) alert Randall Holliness, or Todd Asnicar
- (D) all of the above
- (E) A & C

7. When working with alkali metals, you should wear (use)

- (A) flip flops
- (B) face shield
- (C) goggles & gloves
- (D) a lab coat
- (E) all of the above
- (F) B, C, & D

8. Carcinogenic chemicals include

- (A) laser dye
- (B) benzene
- (C) sodium bicarbonate
- (D) all of the above
- (E) A & B

9. Safety recommendations for the use of gas cylinders include

- (A) always securing them to a wall or other solid object
- (B) using proper reducing valves
- (C) pumping out gas lines
- (D) checking for leaks
- (E) never leaving flowing gases unattended
- (F) all of the above
- (G) A, D & E

10. When using corrosive substances,

- (A) wear thick rubber gloves
- (B) dilute them before disposing of them
- (C) dispose of them in a hazardous waste container
- (D) all of the above
- (E) A & C