

## May Quiz Questions

### Engineering Controls

1. If a hazardous material can not be eliminated or substituted, engineering controls are the first line of defense to isolate people from the hazard.

- A. True
- B. False

2. Which is a correct statement about chemical fume hoods?

- A. They are used to contain and exhaust hazardous fumes, vapors, or dust.
- B. They must be tested annually by EHS to ensure they are working properly.
- C. They should be kept clean and clear of items that may impede proper air flow and normal operation.
- D. All of the above

3. Which of the following would be considered engineering controls?

- A. Downdraft tables
- B. Biological safety cabinets
- C. Centrifuge rotor lids/bucket covers with O-Ring seals
- D. Self-shielded x-ray cabinets with door interlocks
- E. All of the above

4. Flammable gases can be used in a biological safety cabinet.

- A. True
- B. False

5. Biological Safety Cabinets must be tested and certified:

- A. At the time of installation
- B. Annually
- C. After the cabinet has been moved and before use
- D. All of the above

6. Eliminate or minimize employee needle sticks by using self-sheathing or self-blunting needles and disposing all sharps in leak-proof and puncture-resistant sharps disposal containers.

- A. True
- B. False

7. When pipetting in the lab, which is ergonomically incorrect?

- A. Maintain straight wrists

- B. Elbow and body need to stay close to your work
- C. Select lightest pipette
- D. Twisting or rotating your wrists
- E. Using multi-channel or electronic pipette to reduce repetitions

8. When using the biological safety cabinet, which is the ergonomically friendly way to use it?

- A. Keep your head bent forward at a 30-degree angle.
- B. Rest elbows or forearms on elevated pads.
- C. Keep wrists in line with forearms.
- D. Sit upright at 90 degrees.
- E. All of the Above

9. Vacuum Systems need an in-line HEPA filter between the final flask and the vacuum source to protect the vacuum system from contamination.

- A. True
- B. False

10. Hot plates cannot be operated near volatile or flammable materials and need to be used in a hood if potential vapors are generated.

- A. True
- B. False