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