

EE 432/532

Name _____

Quiz 0 – Jan. 20 – 24, 2020

Put your final answers on this sheet and attach any additional sheets behind. You must include your work to get full credit.

True/False

1. Material safety data sheets give you data about the benefits of a healthy diet. _____

2. If you spill an acid (other than HF) on your skin, you will need to rinse it for a minimum of 15 minutes. _____

3. If you happen to get some chemicals in you eye, you should squeeze your eyelids shut and keep then shut for as long as possible. _____

4. Even though HF is considered a “weak” acid, it is just as dangerous as strong acids. _____

5. All chemical wastes should be poured down the drain or dumped outside. _____

6. The single biggest contamination risk for your silicon wafers is dust blowing in from outdoors. _____

Circle the correct answer(s)

7. Which of the following is not a potential hazard in the NSF laboratory?
 - a. Chemical burns from strong acids and bases.
 - b. Exposure to intense ultraviolet light.
 - c. Having your feelings hurt by a grumpy professor.
 - d. Burns from a super-hot furnace.

8. When can sandals be worn in the laboratory?
 - a. On sunny days when the outside temperature is over 70°F.
 - b. Every other week.
 - c. Never.
 - d. Only when you are not wearing socks (unless you are German).

9. The correct set of PPE when working with chemicals includes

- a. Tube socks, a fur coat, and Oakley sunglasses.
- b. Lab coat, goggles, and clean-room gloves, and heat-resistant gloves.
- c. A full-body Haz-Mat suit.
- d. Lab coat, heavy apron, goggles, chem-resistant gloves.

10. What safety information are entitled to have access to?

- a. Toxicity of the different materials used in the lab.
- b. Safety procedures for the different processes we use.
- c. Use of PPE.
- d. All of the above.
- e. All of the above and everything else that can be known about lab safety.

11. Which of the following will help keep your wafers clean and free from impurities? (Circle all that apply.)

- a. Tweezers.
- b. de-ionized water
- c. hand disinfectant
- d. clean-room gloves
- e. nasal sprays

12. In addition to rinsing, what should be applied in case of exposure to HF?

- a. butter
- b. zinc oxide paste
- c. calcium gluconate paste
- d. Bloodroot paste