

Laser Safety Quiz

Name: _____

Company: _____

Date: _____

Class Attending: _____

Select the best answer for the questions below:

- 1) What two classes of laser potentially pose the highest level of hazard?
 - Class 1 & Class 2
 - Class 3 & Class 4
 - Class 5 & Class 6
 - All of the above

- 2) What two organizations in the United States provide specific laser safety standards?
 - FDA & NIH
 - ATF & EPA
 - ANSI & OSHA
 - PBA & MLB

- 3) Retinal eye damage occurs in which optical range?
 - Ocular Region 400 to 1400 nm
 - Mid UV 180 to 315 nm
 - Near UV 315 to 390 nm
 - X-Ray below 100 nm

- 4) What are the two main characteristics to consider when choosing eyewear?
 - Style and fit
 - OD and wavelength
 - Price and frame
 - Plastic or glass

- 5) At what magnification does the eye's lens focus light onto the retina?
 - 1,000 X
 - 100 X
 - 500 X
 - 100,000 X

- 6) A pair of safety glasses has the following specifications stamped on it:

OD 7 @ 180-380nm
OD 2-3 @ 488- 515nm
OD 5 @ 10,600nm

Which laser should these be used with?

- Krypton Ion laser operation at 200mW, Multi-line Violet (406 to 413nm)
 - Verdi laser operation at 10W, 532nm
 - Mira laser operating at 400mW, 850nm
 - Argon Ion laser operating at 2W, 496nm
- 7) What laser hazard is associated with the laser beam?
- Electrical
 - Radiological
 - Biological
 - Chemical
- 8) What is an example of an engineering control measure with respect to operating a laser?
- An interlock circuit
 - Water-cooled lasers
 - Turning on a “Laser In Use” warning light outside of lab
 - Wearing laser safety glasses
- 9) Which is of no concern for laser induced biological effects to the skin?
- Beam penetration
 - Exposure limits
 - Size of exposed area
 - Beam divergence
- 10) What is not an administrative control measure with respect to operating a laser?
- A “Laser In Use” warning sign
 - Availability of laser safety eyewear
 - Reviewing standard operation procedures (SOP)
 - Using a cardboard box as a beam stop