Name:		
Score:	/	

Laser Safety Exam

Part 1: Basic

25	Which of the following is not a property of laser radiation? A. Monochromacity
	C B. Coherence
	C. Directionality
	C D. Low Radiance
	Answer Point Value: 1.0 points Answer Key: D
7	(1 points Any kind of laser warning signs can be used at the entrances to a laser facility. True
	C False
	Answer Point Value: 0.0 points Answer Key: False
21	All accidents involving laser exposureshall be reported to the Laser Safety Officer. True
	C False
	Answer Point Value: 1.0 points Answer Key: True

22	The decrease in the radiant flux as it passes through an absorbing or scattering medium is called:
	C A. attenuation
	B. beam eliminator
	C. energy eliminator
	C D. denaturation
	E. All of the above
	Answer Point Value: 1.0 points Answer Key: A
10	Lasers do not need to secured against unauthorized use because laboratories, in general, provide sufficient security. True
	C False
	Answer Point Value: 1.0 points Answer Key: False
27	What is last task you should perform after you have finished servicing the laser? A. Put away any tools.
	B. Inform the LSO.
	C. Reactivate all the safety features.
	D. Look directly into the beam.
	Answer Point Value: 1.0 points Answer Key: C
18	(1 points. Authorized Users are responsible for enforcing access restrictions during the use of a laser. True
	C False
	Answer Point Value: 0.0 points

Answer Key: True

	are never required True*
	Answer Point Value: 1.0 points Model Short Answer:
30	 Choose the two organs most susceptible to laser damage: A. extremities and lungs B. eyes and skin C. hair and eyes D. hands and feet
	Answer Point Value: 1.0 points Answer Key: B
3	(1 points. Pulsed lasers are generally not as hazardous as continuous wave beams becaus there is time for recovery between pulses. True False
	Answer Point Value: 0.0 points Answer Key: False
12	 Which of the following laser wavelengths can cause retinal burns? A. Far infrared and ultraviolet. B. Visible and near infrared. C. Ultraviolet only. D. Far infrared only.
	Answer Point Value: 1.0 points Answer Key: B

29	(1 points. Authorized Users only need to verify the status of warning lights, interlocks and/or alarms once a month.
	C True
	C False
	Answer Point Value: 0.0 points
	Answer Key: False
14	Which one of the following is a device intended to prevent access to hazardous laser radiation when an enclosure is opened?
	A. Protective housing
	B. Warning system
	C. Interlock
	C D. Beam stop
	Answer Point Value: 1.0 points Answer Key: C
8	The Authorized User, before energizing the beam,is responsible for verifying that individuals in the room are authorized to be present during operation of the beam and that all safety precautions are being met. True False
	Answer Point Value: 1.0 points Answer Key: True

4	1 points. Authorized Users and Authorized Occupants in laboratories with lasers shall be acquainted with: A. ANSI Standard Z136.1
	B. OSHA Standard 1236 Part II
	C. ANSI Standard Z142.3
	C D. 10 CFR 30
	Answer Point Value: 0.0 points Answer Key: A
6	The potential location of injury in the eye is directly related to the wavelength of the laser radiation. True
	C False
	Answer Point Value: 1.0 points Answer Key: True
13	54 All laser protective eyewear must be marked with the absorption wavelength and the optical density (OD. at that wavelength
	Answer Point Value: 1.0 points Answer Key: Treu
28	Direct exposure to the optic disc from visible light from a Class 4 laser will cause: A. loss of night vision
	B. no effect
	C. loss of color vision
	D. severe damage (blindness, burns.
	E. temporary flash-blindness
	Answer Point Value: 1.0 points Answer Key: E

16	Other hazards associated with the use of high-powered lasers include: A. high voltage
	C B. cryogenics
	C. ionizing radiation
	C D. toxic laser dyes
	C E. fire hazard
	F. laser generated air contaminants
	C G. all of the above
	Answer Point Value: 1.0 points Answer Key: G
24	The effects of laser damage to the skin are dependent on: A. power density
	© B. absorption
	C. time duration of exposure
	D. circulation and conduction
	C E. all of the above
	Answer Point Value: 1.0 points Answer Key: E
20	Which is one of the most important pieces of information included in the Standard Operating Procedure for a laser?
	A. Identification of potential hazards.
	B. The name of the LSO.
	C. The laser manufacturer.
	D. Medical requirements.
	Answer Point Value: 1.0 points Answer Key: A

9	All doors to rooms that contain a class 3a, 3b, or 4 lasers are to be posted with a sign marked "WARNING".
	C True
	C False
	Answer Point Value: 1.0 points Answer Key: False
11	At UCSC special safety glasses designed for the type of laser being used are never needed. True
	C False
	Answer Point Value: 1.0 points Answer Key: False
19	What is the best way to control airborne contaminants? A. Set up a temporary controlled area.
	B. Use an exhaust ventilation system
	C. Use flame retardant curtains.
	D. Do not use target materials.
	Answer Point Value: 1.0 points Answer Key: B
26	Which type of eye damage is likely to occur if the lens is exposed to ultraviolet laser radiation? A. Cataract
	B. Retinal Burn
	C. Stigmatism
	D. Total Blindness
	Answer Point Value: 1.0 points Answer Key: A

17	Which classes of lasers require the word ?DANGER ? on their warning labels? A. Classes I,II, and IIa.
	C B. Classes II and IIa.
	C. Classes IIIb, and IV and some IIIa.
	D. Classes IIIb and IV only.
	Answer Point Value: 1.0 points Answer Key: D
15	Lasers shall not be transferred or relocated unless prior approval has been obtained from the Laser Safety Officer. True
	C False
	Answer Point Value: 1.0 points Answer Key: True
2	Closure of the eyelid or movement of the individual's head to avoid an exposure to a bright light is called: A. emission avoidance response
	B. avoidance
	C. quick thinking
	C D. aversion response
	E. none of the above
	Answer Point Value: 1.0 points Answer Key: D

23	Hazardous exposure to diffusely reflected radiation is most likely to occur from which class of laser? A. Class II.
	C B. Class IIIa
	C. Class IIIb
	C D. Class IV
	Answer Point Value: 1.0 points Answer Key: D
5	Which of the following statements are true: A. Laser light can damage your eyes, even if you are a Ph.D.
	B. Laser light from a Class IV laser can burn you, even if you have 20 years of laser experience.
	C. All laser injury accidents are preventable.
	 D. Intrabeam viewing is permissible if you wear the proper laser eye protection
	E. All of the above

Answer Point Value: 1.0 points

Answer Key: E