QUIZ QUESTIONS

- 1) What does the acronym LASER stand for?
 - a) Light Absorption by Stimulated Emission of Radiation
 - b) Light Amplification by Stimulated Emission of Radiation
 - c) Light Alteration by Stimulated Emission of Radiation
- 2) What does the acronym MASER stand for?
 - a) Microwave Amplification by Stimulated Emission of Radiation
 - b) Molecular Absorption by Stimulated Emission of Radiation
 - c) The name of Albert Einstein's dog
- 3) What is one way to describe a Photon?
 - a) Solid as a rock
 - b) A wave packet
 - c) A torpedo
- 4) What determines the color of light?
 - a) its intensity
 - b) its wavelength
 - c) its source
- 5) Which scientist first came up with the idea of stimulated emission?
 - a) Alexander Graham Bell
 - b) Isaac Newton
 - c) Arthur Schalow
 - d) Albert Einstein
- 6) Which laser is considered "eye safe"?
 - a) Laser bar-code scanners
 - b) The eximer laser
 - c) Communications lasers

7)	Why are lasers used in fiber optic communications systems		
	a) b)	The government has mandated it They can be pulsed with high speed data	
	c)	They are very inexpensive	
8)	8) What type of laser is used in CD and DVD players?		
0)			
	a) b)	Semiconductor YAG	
	c)	Alexandrite	
9)	9) Why are lasers used in "Laser Printers"		
		They can be focused down to very small spot sizes for high resolution	
	a) b)	They are cheap	
	c)	They are impossible to damage	
10) As wavelength gets longer, the laser light can be focused to			
	a)	Larger spot sizes	
	b)	Smaller spot sizes	
11)	1) Which color of light has the shortest wavelength?		
	a)	Yellow	
	b)	Blue	
	c) d)	Red Green	
10) William 10 (1) 11 14 17 14 17 18 18 18 18 18 18 18 18 18 18 18 18 18			
12) What property of laser light is used to measure strain in roadways?			
	a) b)	Intensity Power	
	c)	Coherence	
13) What is the type of laser used most widely in industrial materials processing applications?			
	a)	Dye Laser	
	b) c)	YAG laser Ruby Laser	
	d)	Carbon Dioxide Laser	

14) Why are lasers used for cutting materials			
c) d)	It never gets dull It has a small "heat affected zone" Accuracy Smoother cuts Repeatability All of the above		
15) The Ex	imer laser produces light with what wavelength?		
/	Visible Ultraviolet Infrared		
16) Laser energy is used to break up kidney or gallstones in process called?			
a)	Trbecularplasty		
b) c)	Lithotripsy Viscocanalostomy		
a)	tional Ignition Facility will use what type of laser for fusion power experimentation? Neodymium-glass Argon gas Rhodamine Dye		
18) Most lasers are electrically inefficient devices.			
a) b)	True False		
,	eal lasers use to produce their beams. Excessive amounts of electrical power Small amounts of electrical power No electrical power		
20) What ty	20) What type of laser could cause skin cancer if not used properly?		
a)	Red semiconductor laser		

b) Blue semiconductorc) Eximer laserd) YAG laser

ANSWERS

- 1) b
- 2) a
- 3) b
- 4) b
- 5) d
- 6) a
- 7) b 8) a
- 9) a
- 10) b
- 11) b 12) c
- 13) d
- 14) f
- 15) b
- 16) b
- 17) a
- 18) a
- 19) c
- 20) c