

## Multiple Choice

Identify the letter of the choice that best completes the statement or answers the question.

- \_\_\_\_ 11. Visible light has a higher frequency than  
a. gamma rays. c. X-rays.  
b. infrared rays. d. ultraviolet rays.
- \_\_\_\_ 12. A blue shirt looks blue in white light because \_\_\_\_\_ is reflected from the shirt.  
a. blue light c. green light  
b. white light d. black light
- \_\_\_\_ 13. Electromagnetic waves can transfer energy without a(n)  
a. medium. c. magnetic field.  
b. change in either a magnetic field or an electric field. d. electric field.
- \_\_\_\_ 14. All of the following material would cause diffuse reflections **EXCEPT** \_\_\_\_\_.  
a. leather c. glass  
b. fabric d. brick
- \_\_\_\_ 15. Wax paper is \_\_\_\_\_.  
a. translucent c. reflective  
b. transparent d. opaque
- \_\_\_\_ 16. If light waves change speed when they pass from one medium into another, the light will be \_\_\_\_\_.  
a. reflected c. separated  
b. refracted d. diffracted
- \_\_\_\_ 17. The range of electromagnetic waves placed in a certain order is called the  
a. electromagnetic spectrum. c. electromagnetic wavelength.  
b. electromagnetic field. d. electromagnetic frequency.
- \_\_\_\_ 18. Plastic wrap is \_\_\_\_\_.  
a. translucent c. opaque  
b. reflective d. transparent
- \_\_\_\_ 19. All of the following are part of seeing yourself in a mirror **EXCEPT** \_\_\_\_\_.  
a. light from you hits the mirror c. light from the mirror hits your eye  
b. light reflects off you d. lights from the mirror hits the wall
- \_\_\_\_ 20. Which of the following media can sound NOT travel through?  
a. air c. metal  
b. empty space d. water