

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 d. electric field.
or an 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