____ 31. If you pass a building with a siren sounding, as you move away from the building, the sirens will sound ____.
a. higher
b. lower
c. the same
d. depends on the speed

____ 32. A particle of electromagnetic radiation is called a _____.
a. proton
b. nucleus
c. photon
d. broadcasting

____ 33. _____ rays can be used to destroy diseased tissue in a patient.
a. Infrared
b. X-
c. Fluorescent
d. Gamma

____ 34. Which light wave has the longest wavelength and the lowest frequency?
a. yellow
b. red
c. blue
d. violet

____ 35. Which light wave has the shortest wavelength and the highest frequency?
a. yellow
b. red
c. blue
d. violet

____ 36. Which action must occur first in the process of producing an electromagnetic wave?
a. the electric field changes
b. a charged particle vibrates
c. the magnetic field changes
d. the field around a charged particle vibrates

____ 37. Reflection of light waves from a smooth surface is ____.
a. diffuse reflection
b. mirror reflection
c. irregular reflection
d. regular reflection

____ 38. If light waves change speed when they pass from one medium into another, the light will be ____.
a. diffused
b. reflected
c. refracted
d. separated

____ 39. Strawberries reflect light waves of which of the following wavelengths?
a. red wavelengths
b. yellow wavelengths
c. blue wavelengths
d. purple wavelengths

____ 40. Which is the most important source of electromagnetic waves for Earth?
a. the Moon
b. humans
c. fire
d. the Sun

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