

Quiz Question Bank

1. Maximum distance a wave varies from its rest position
 - a. Integer
 - b. Amplitude
 - c. Wave length
 - d. Friction
2. The highest point of a transverse wave
 - a. Compression
 - b. Amplitude
 - c. Crest
 - d. Refraction
3. A form of energy that can travel through empty space as well as through matter, includes visible light, radio waves, X-rays, and many other wavelengths.
 - a. Seismic wave
 - b. Amplitude wave
 - c. Electromagnetic wave
 - d. Crest wave
4. How many waves can pass a given point per second, measured in Hertz (Hz)
 - a. Amplitude
 - b. Crest
 - c. Frequency
 - d. Friction
5. Unit of measurement for frequency
 - a. Joule
 - b. Hertz
 - c. Amplitude
 - d. Watt
6. A wave that moves back and forth parallel to the direction that it is travelling
 - a. Transverse wave
 - b. Seismic wave
 - c. Longitudinal wave
 - d. Mechanical wave

7. Energy that travels through matter (medium); examples include sound waves, ocean waves, and earthquake waves
 - a. Mechanical wave
 - b. Longitudinal wave
 - c. Rarefaction wave
 - d. Diffraction wave

8. Material through which a wave travels
 - a. Medium
 - b. Monopoly
 - c. Amplitude
 - d. Frequency

9. The bouncing back of a ray of light, sound, or heat when the ray hits a surface that it does not go through
 - a. Rarefaction
 - b. Reflection
 - c. Diffraction
 - d. Confusion

10. The bending of a wave as it enters a new medium at an angle
 - a. Diffraction
 - b. Resemblance
 - c. Reflection
 - d. Refraction

11. A wave that moves at right angles or perpendicular to the direction that it travels
 - a. Transverse wave
 - b. Mechanical wave
 - c. Longitudinal wave
 - d. Wave of feeling

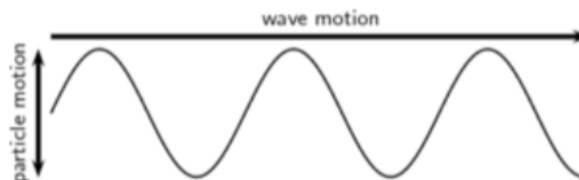
12. Lowest point of a wave
 - a. Crest
 - b. Trough
 - c. Amplitude
 - d. Wave length

13. A back and forth motion that travels from one place to another
 - a. Wavelength
 - b. Amplitude
 - c. Wave
 - d. Crest

14. Distance between one point on a wave and the nearest point just like it
- Wavelength
 - Amplitude
 - Frequency
 - Trough
15. The speed at which a wave travels; measured in Hertz (Hz)
- Frequency
 - Vibration
 - Wave speed
 - Warp speed
16. Through which of these mediums can sound waves NOT travel through?
- Wood
 - Water
 - Vacuum
 - Air
17. As a wave travels between two points in a material/medium, it transfers:
- Energy only
 - Matter only
 - Both energy and matter
 - Neither energy or matter
18. Waves that do not require a medium are called
- Electromagnetic waves
 - Mechanical waves
 - Surface waves
 - Longitudinal waves

19. _____ move the particles of the medium perpendicular to the direction of the wave.

- Surface waves
- Mechanical waves
- Transverse waves
- Longitudinal waves



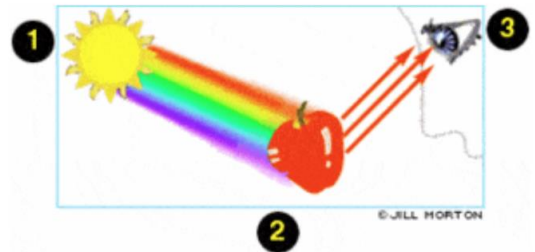
20. _____ move the particles of the medium parallel to the direction of the wave

- Electromagnetic waves
- Surface waves
- Transverse waves
- Longitudinal waves



21. As the wavelength of a wave gets longer, the frequency
- Increases
 - Decreases
 - Stays the same
 - Has no reaction
22. A material that reflects or absorbs all the light that strikes it is
- Opaque
 - Transparent
 - Translucent
 - Concave
23. You can see your image in a shiny, flat surface because light waves bounce directly back at you and your eyes. This is an example of _____.
- Diffraction
 - Reflection
 - Refraction
 - Transparency

24. Which of the following is true about an apple that appears red?
- It absorbs red light and reflects all other colors
 - It reflects red light and absorbs all other colors
 - It transmits red light and reflects all other colors
 - It reflects back all the colors



25. Why is it that you can hear around a corner, but you cannot see around a corner?
- Sound waves are able to diffract
 - Sound waves are able to refract
 - Light waves are able to diffract
 - Light waves are able to refract

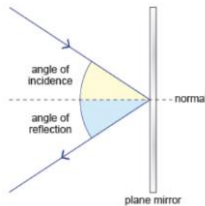
26. In the diagram, what causes the pencil to appear this way?
- Reflection
 - Refraction
 - Interference
 - Diffraction



27. In the same diagram above, the pencil appears broken at the surface of the water. This is because
- Light waves speed up when they move from air to water
 - Light waves slow down when they move from air to water
 - Light waves stop when they hit water
 - There is no change in light wave speed

28. The figure below represents which form of light travel

- Reflection
- Refraction
- Diffraction
- Interference



29. Which of the following lists of the Electromagnetic spectrum is the correct order from LOWEST to HIGHEST frequency?
- Gamma Rays, Microwaves, Infrared, Ultraviolet, Visible Light, X-Rays, Radio Waves
 - X-Rays, Infrared, Ultraviolet, Visible Light, Gamma Rays, Microwaves, Radio
 - Radio Waves, Microwaves, Infrared, Visible Light, Ultraviolet, X-Rays, Gamma Rays
 - Microwaves, X-Rays, Gamma Rays, Ultraviolet, Infrared, Radio Waves, Visible Light
30. Through which medium does a light wave travel the fastest?
- Solid
 - Liquid
 - Gas
 - Medium does not affect the speed of light
31. The loudness of a sound that you hear is generated by the wave's
- Frequency
 - Wavelength
 - Amplitude
 - Rest position
32. Which of the following Electromagnetic waves carries the most energy?
- Visible light
 - Radio waves
 - Infrared waves
 - Ultraviolet rays