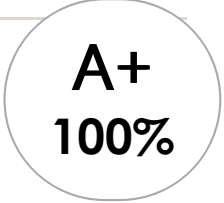


20 Multiple choice questions



A+
100%

1. a wave in which the particles vibrate at right angles to the direction of energy transfer
 - a. **CORRECT: transverse wave**
 - b. wave
 - c. wavelength
 - d. reflection

2. the combination of two or more waves by adding their displacements to produce a resultant wave
 - a. reflection
 - b. **CORRECT: superposition**
 - c. rarefaction
 - d. refraction

3. the bouncing back of a wave or particle from a boundary
 - a. velocity
 - b. refraction
 - c. **CORRECT: reflection**
 - d. rarefaction

4. the degree of loudness of a sound
 - a. **CORRECT: volume**
 - b. pulse
 - c. trough
 - d. wave

5. high frequency electromagnetic waves of high penetration
 - a. pulse
 - b. **CORRECT: x-ray**
 - c. wave
 - d. ray

6. the bending of a wave as it passes from one medium into another, resulting from a change in speed of the wave in the two media
- rarefaction
 - refractive index
 - CORRECT: refraction**
 - reflection
7. the region in a longitudinal wave where the particles are spread out further than their equilibrium positions
- wavefront
 - CORRECT: rarefaction**
 - reflection
 - refraction
8. the ratio of the sine of the angle of incidence to the sine of the angle of refraction, for a wave travelling from one medium into another
- rarefaction
 - CORRECT: refractive index**
 - refraction
 - reflection
9. a line joining points in phase on a wave
- wave
 - CORRECT: wavefront**
 - velocity
 - wavelength
10. a line drawn at right angles to a wave front
- pulse
 - x-ray
 - CORRECT: ray**
 - wave

11. a law relating the angle of incidence to the angle of refraction; $n = \sin i / \sin r$
- CORRECT: Snell's law**
 - pulse
 - velocity
 - ultraviolet
12. the reflection of all the light falling on a boundary when the angle of incidence exceeds the critical angle
- refraction
 - CORRECT: total internal reflection**
 - reflection
 - rarefaction
13. the speed of a wave in the direction of energy transfer
- reflection
 - volume
 - wavelength
 - CORRECT: velocity**
14. a single disturbance
- CORRECT: pulse**
 - wave
 - volume
 - x-ray
15. to travel through a medium or space
- volume
 - ray
 - trough
 - CORRECT: propagate**
16. electromagnetic waves with wavelengths shorter than violet light
- CORRECT: ultraviolet**
 - refraction
 - trough
 - wave

17. a region of downwards displacement in a transverse wave
- ray
 - pulse
 - CORRECT: trough**
 - volume
18. a carrier of energy; does not transfer matter
- pulse
 - ray
 - CORRECT: wave**
 - x-ray
19. a flat mirror
- CORRECT: plane mirror**
 - wavefront
 - rarefaction
 - reflection
20. the distance between two corresponding successive points on a wave
- velocity
 - wave
 - CORRECT: wavelength**
 - wavefront