

PSC 1341
Quiz3

Matching

- 1. Mechanical Wave _____
- 2. Electromagnetic Wave _____
- 3. Longitudinal wave _____
- 4. Transverse Wave _____
- 5. Visible Light _____
- 6. Wavelength _____
- 7. Amplitude _____
- 8. Frequency _____
- 9. reflection _____
- 10. Refraction _____
- 11. Doppler Effect _____
- 12. Diffraction _____
- 13. Dispersion _____

- A. Part of the electromagnetic spectrum
- B. length or size of one oscillation
- C. the bending of a wave as it passes from one medium to another.
- D. A wave which requires a medium for transfer
- E. oscillations are perpendicular to the direction of motion
- F. The separation of visible light into its different colors
- G. oscillations are in the direction of motion (parallel to the motion)
- H. strength of disturbance (intensity)
- I. When a wave bounces off an object and changes direction
- J. A wave which does not require a medium for transfer
- K. when an object causes a wave to change direction and bend around it.
- L. the apparent change in frequency detected when the sound is moving relative to the hearer.
- M. repetition / how often they occur per second

2. Matching

- 1. proton _____
- 2. neutron _____
- 3. electron _____
- 4. Triboelectric Series _____
- 5. current _____
- 6. voltage _____
- 7. Conductors _____
- 8. Resistance _____
- 9. Direct Current _____
- 10. Alternating Current _____
- 11. Oersted _____

- A. The flow of electrons, measured in amperes
- B. current that passes in the same direction constantly
- C. a person who discovered that a moving charge creates a magnetic field
- D. material through which electric current flows easily

- E. The opposition to the flow of an electric current measured in ohms
- F. Materials ranked in order of their ability to hold or give up electrons.
- G. electrical potential measured in volts
- H. a sub-atomic particle with a neutral charge and a mass of 1 amu
- I. current that is always changing direction
- J. a sub-atomic particle with a positive charge and a mass of 1 amu
- K. a sub-atomic particle with a negative charge and a mass much less than 1 amu

3. What is the resistance of circuit with a voltage of 6.0 volts and a current of 2.4 amps?

4. An electrical device is rated at 118 watts. Assuming that your device is plugged into a 115-volt outlet, how much current will flow through the device at full power?

5. What is the wavelength of a radiowave with a frequency of 84.8 MHz ?
(Units should be in meters)

6. What is the frequency of light with a wavelength of 607 nm?
(A nanometer is ten to the minus ninth meters)