Quizlet

20 Multiple choice questions

1. the range of electromagnetic waves from high frequency gamma waves to low frequency radio wave/

AT 100%

- a. electromagnetic radiation
- b. CORRECT: electromagnetic spectrum
- c. periodic motion
- d. microwaves
- 2. electromagnetic waves with wavelengths ranging from 1 mm to 0.1 mm
 - a. laser
 - b. ionosphere
 - c. phase
 - d. **CORRECT:** microwaves
- 3. a system that uses satellites to determine position on the Earth
 - a. longitudinal wave
 - b. CORRECT: global positioning system (GPS)
 - c. optical fibre
 - d. nodal lines
- 4. a point at which light rays meet or appear to diverge from
 - a. CORRECT: focus
 - b. normal
 - c. pitch
 - d. phase
- 5. an acronym for Light Amplification by the Stimulated Emission of Radiation; a source of intense coherent light
 - a. focus
 - b. pitch
 - c. phase
 - d. CORRECT: laser

- a spherical shell of ionised gas surrounding the Earth; can be used to reflect long-wave radio waves a. laser b. microwaves c. CORRECT: ionosphere d. phase the alteration of some electronic or acoustic parameter by another a. medium b. **CORRECT:** modulation c. focus d. nodal lines a wave in which the particles vibrate parallel to the direction of energy transfer a. microwaves b. nodal lines c. optical fibre d. CORRECT: longitudinal wave number of waves to pass a point per second; the number of oscillations of a particle per second a. phase b. focus c. CORRECT: frequency d. period
- 10. lines joining points of destructive interference
 - a. modulation
 - b. **CORRECT:** nodal lines
 - c. normal
 - d. medium

- 11. traverse waves composed of alternating electric and magnetic fields, the components of which are perpendicular to each other and to the direction of the energy flowa. CORRECT: electromagnetic radiation
 - b. electromagnetic spectrum
 - c. periodic motion
 - d. frequency modulation
- 12. a region through which a wave propagates
 - a. **CORRECT:** medium
 - b. phase
 - c. period
 - d. focus
- 13. a type of modulation where the frequency of the carrier wave is altered by an imposed signal
 - a. modulation
 - b. frequency
 - c. CORRECT: frequency modulation
 - d. periodic motion
- 14. a relationship in which one quantity is directly proportional to the inverse of another quantity squared
 - a. frequency
 - b. ionosphere
 - c. normal
 - d. **CORRECT:** inverse square law
- 15. the time for one wave to pass a point; the time for a particle executing simple harmonic motion to complete one oscillation
 - a. normal
 - b. pitch
 - c. CORRECT: period
 - d. medium

16.	motion which repeats itself at regular intervals of time
	a. CORRECT: periodic motion
	b. period
	c. modulation
	d. medium
17.	a quantity which tells us what a particle undergoing periodic motion is doing
	a. laser
	b. CORRECT: phase
	c. period
	d. pitch
18.	a line drawn at right angles to another line or surface
	a. focus
	b. medium
	c. period
	d. CORRECT: normal
19.	a subjective quantity related to the frequency of sound; the higher the pitch, the higher the frequency
	a. CORRECT: pitch
	b. phase
	c. period
	d. focus
20.	a glass fibre consisting of two layers, the outer layer has a lower refractive index than the inner layer; used to
	transmit light over long distances
	a. ionosphere
	b. nodal lines
	c. CORRECT: optical fibre
	d. phase