

Mechanical Waves

1- Fill in the blanks

- a) The mechanical wave is a ----- that propagates in a -----.
- b) The wave is said to be transverse when the motion of its ----- is ----- to the ----- of propagation of this wave, while it is ----- when the direction of motion of its ----- is ----- to the direction of ----- of the -----.
- c) The wave carries ----- and not -----.
- d) The speed of propagation of a wave is ----- in a homogeneous medium, and it depends on the ----- of the medium of propagation.

matter	wave	constant	characteristics		
perpendicular	energy	parallel	direction	medium	particles
particles	propagation	perturbation	longitudinal		

2- Choose the correct answer

a) Water waves are:

Transverse

Longitudinal

Vibrations

b) The frequency of the voltage of the mains is 50 Hz then its period is:

100 s

2 s

0.02 s

5 s

c) When the period of a wave increases then its frequency:

remains the same

increases

decreases

d) When the speed of a wave increases then its frequency:

remains the same

increases

decreases