

Mechanical Waves

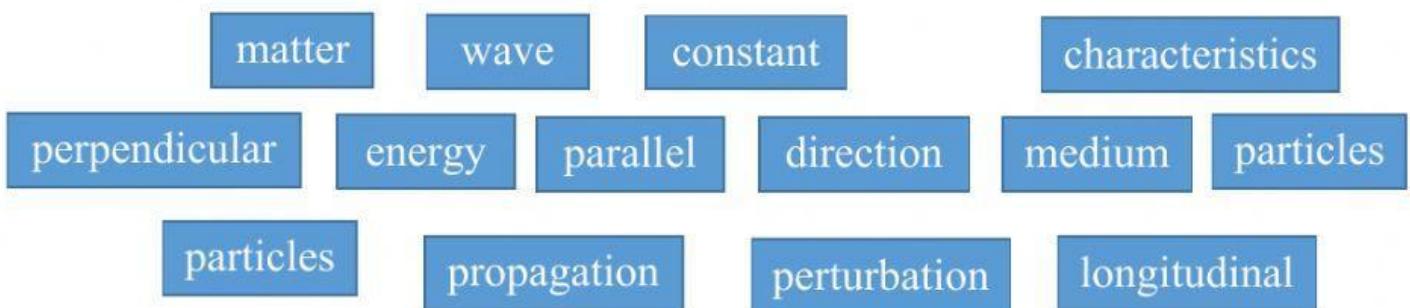
1- Fill in the blanks

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.



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