

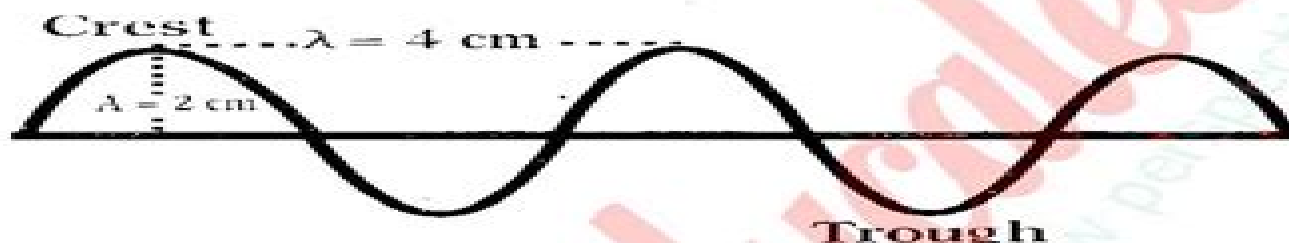
### Crests and troughs:

The crests are the highest points while the troughs are the lowest points of the particles of the medium from the mean position. The crests and troughs move perpendicular to the direction of the wave.

Waves on the surface of water and light waves are also transverse waves.

**10.6. Draw a transverse wave with an amplitude of 2 cm and a wavelength of 4 cm. Label a crest and trough on the wave.**

**Ans:**



Where "A" is Amplitude and "λ" is wavelength

**10.7. Derive a relationship between speed, frequency and wavelength of a wave. Write a formula relating speed of a wave to its time period and wavelength.**

**Ans: Wave equation:**

The relation between the velocity, frequency and wavelength of the wave is known as wave equation.

The velocity of wave which is defined by *Velocity = distance/time*

$$v = \frac{d}{t} \dots\dots\dots (i)$$

If time taken by the wave in moving from one point to another is equal to the time period then the distance covered by the wave will be equal to one wavelength, hence we can write ( $d = \lambda$ )

$$v = \frac{\lambda}{T}$$

$$v = \lambda \times \frac{1}{T} \dots\dots\dots (ii)$$

But time period T is reciprocal of the frequency  $f$ . i.e.,  $T = \frac{1}{f} \Rightarrow f = \frac{1}{T}$

Therefore Equation (ii) becomes  $v = f \lambda \dots\dots\dots (iii)$

Eq. (iii) is called the wave equation.

**10.8. Waves are the means of energy transfer without transfer of matter. Justify this statement with the help of a simple experiment.**

**Ans: Waves as Carriers of Energy:**

Energy can be transferred from one place to another through waves.

**For example:**

When we shake the stretched string up and down, we provide our muscular energy to the string. As a result, a set of waves can be seen travelling along the string. The vibrating force from the hand disturbs the particles of the string and sets them in motion. These particles then transfer their energy to the adjacent particles in

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