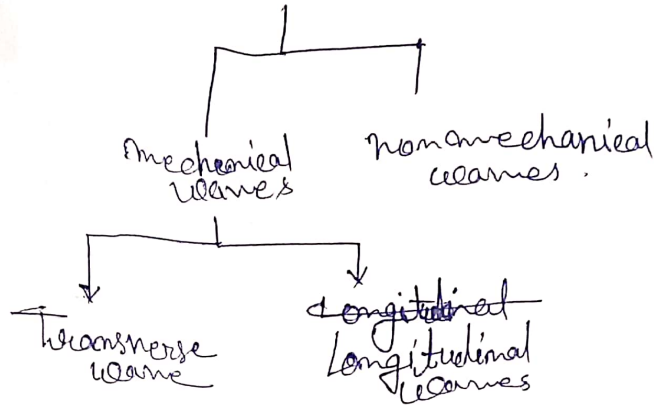


Wave motion Types of wave motion →

(1) Mechanical waves - The mechanical waves can be produced and propagated only in material medium. For example water and sound wave etc. Mechanical waves are of two types such as -

(i) Transverse wave motion → A wave in which the particles of the medium vibrate at right



angles to the direction of propagation of the wave is called a transverse wave. In wave motion the particles of the medium are displaced in a direction perpendicular to the direction of energy transport. These waves travel in the form of peaks and troughs.

(ii) The crest is the highest point at which the medium rises.

(iii) The trough is the lowest point at which the medium sinks.