

### REVIEW QUESTIONS

10.1 What is simple Harmonic Motion? What are the necessary condition for a body to execute simple harmonic motion?

Ans:

Simple Harmonic Motion (S.H.M):

Simple Harmonic motion (S.H.M) is a to and fro oscillatory motion in which acceleration of the body is directly proportional to the displacement of the body from the mean position and it is always directed towards mean position.

Mathematically

$$a \propto -x$$

Basic Conditions to Execute S.H.M:

Basic conditions to execute simple harmonic motion as under.

- (i) A system executing simple harmonic motion always vibrates about a fixed position.
- (ii) Its acceleration is always directed towards mean position.
- (iii) Magnitude of acceleration is directly proportional to displacement from the mean position.

10.2 Think of several examples in everyday life of motion that are simple harmonic.

Ans: Example of Simple Harmonic Motion (SHM)

- (i) Motion of a body attached to one end of spring.
- (ii) Motion of bob of simple pendulum.
- (iii) Motion of ball in bowl system.
- (iv) Motion of the prong of the tuning Fork.

10.3 What are damped oscillations? How damping progressively reduces the amplitude of oscillation?

Ans: Damped Oscillations

"Any oscillation in which the amplitude of the motion decreases with the time is called damped oscillation".

Damping reduces the amplitude:

Practically in all system the force of friction and resistance retards the motion, so the system do not oscillate for long period of time. The friction reduces the mechanical energy of the system as time passes. Due to the reason damping progressively reduces the amplitude of the motion.

10.4 How can you define term wave? Elaborate difference between mechanical and electromagnetic waves.

Ans: Wave:

A wave is disturbance in the medium which causes the particles of medium to under go vibratory motion about their mean positions in equal intervals of time.

Examples: Water waves, Waves produced in the strings and springs.

Mechanical Wave

Waves which require a medium for their propagation are called mechanical waves.

Examples:

- Radio Waves
- Television Waves
- X-rays

# Concept Review Answers Simple Harmonic Motion

**Clemens Wendtner**



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