

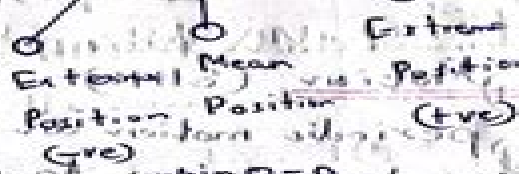
# 5. Oscillations

## 5.1 Introduction

### Types of Motion

- 1) Linear motion
- 2) Angular motion

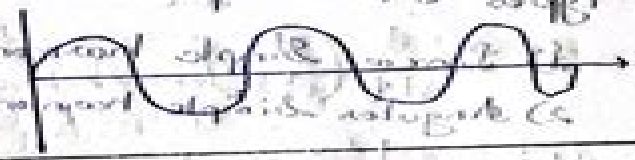
3) Harmonic motion



Displacement  $y = A \sin \omega t$  or  $y = A \cos \omega t$   
 where  $A$  is the amplitude,  $\omega$  is the angular frequency, and  $t$  is time.

### Periodic Motion

The motion of a body which repeats itself after equal intervals of time called as periodic motion.



### Vibratory Motion

Periodic motion in which a particle repeatedly moves to and fro along the same path is the oscillatory or vibratory motion.

### Example of Oscillatory Motion

1. Rocking of the cradle
2. Swinging of a swing
3. Motion of the pendulum of a clock
4. Vibrations of a guitar or violin string
5. Up and down motion of the needle of a sewing machine
6. Oscillation of a spring

$$T = \frac{2\pi}{\omega}$$

# Notes On Oscillation 12th Hsc

**B Lingard**



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