

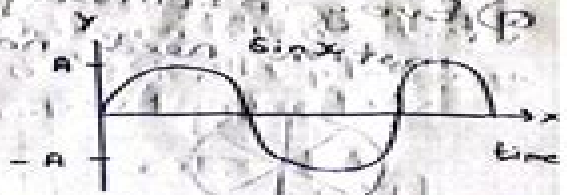
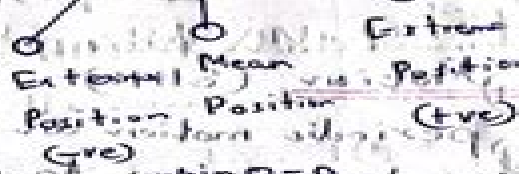
5. Oscillations

5.1 Introduction

Types of Motion

- 1) Linear motion
- 2) Angular motion

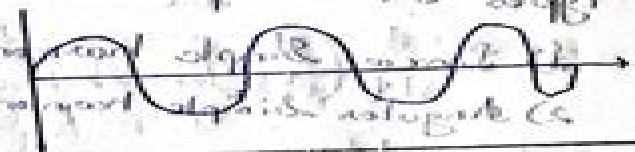
3) Harmonic motion



Displacement $y = A \sin \omega t$ or $y = A \cos \omega t$
 where A is the amplitude, ω 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

M Mark



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Whispering the Secrets of Language: An Emotional Quest through **Notes On Oscillation 12th Hsc**

In a digitally-driven world where displays reign supreme and immediate communication drowns out the subtleties of language, the profound techniques and mental nuances hidden within phrases often move unheard. However, nestled within the pages of **Notes On Oscillation 12th Hsc** a captivating literary treasure sporting with fresh feelings, lies a fantastic quest waiting to be undertaken. Published by an experienced wordsmith, this marvelous opus encourages viewers on an introspective journey, softly unraveling the veiled truths and profound influence resonating within ab muscles fabric of each word. Within the psychological depths with this emotional evaluation, we shall embark upon a sincere exploration of the book is key themes, dissect its interesting publishing model, and yield to the strong resonance it evokes strong within the recesses of readers hearts.

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