

**Q:- Define the following:-**

### Vibratory or Oscillatory motion

To and fro motion of a body about a mean position is called oscillatory motion. For example motion of pendulum

### Restoring Force

The force which bring a system back to its stable equilibrium position is called restoring force.

Mathematically  $F = -kx$

Negative sign show that restoring force acts opposite to displacement from mean position.

### Hook's Law

According to Hook's law, within the elastic limit the applied force is directly proportional to displacement from mean position.

$$F \propto x$$

$$F = kx$$

Here K is proportionality constant called spring constant.

### Spring Constant

Force per unit length of a spring is called spring constant.

$$K = \frac{F}{x}$$

Unit of spring constant is  $\text{Nm}^{-1}$ .

### Simple Harmonic Motion

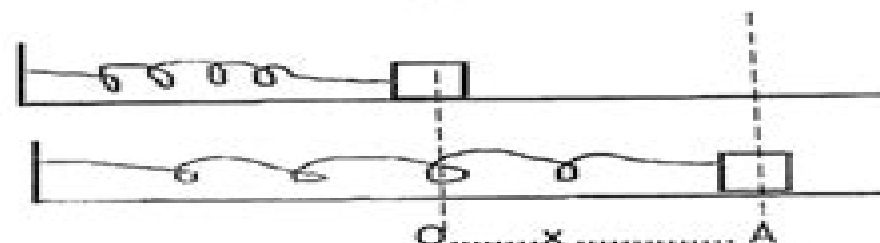
The oscillatory motion in which acceleration of the body at any instant is directly proportional to displacement from mean position and is always directed toward mean position is called Simple Harmonic Motion.

$$a \propto -x$$

For example motion of pendulum

**Q:- Show that motion of mass spring system is SHM.**

Consider a mass attached to one end of a spring. Mass can move freely on a frictionless surface as shown in figure



If an external force  $F_{\text{ext}}$  displaces the body from position O to A through displacement  $x$  then By Hook's Law

$$\vec{F}_x = k\vec{x}$$

The restoring Force  $F$  is equal and opposite to external force  $F_{\text{ext}}$  so

$$\vec{F} = -k\vec{x} \dots \dots (1)$$

When it released from A, it vibrates about O. According to Newton's 2<sup>nd</sup> Law of motion

$$\vec{F} = m\vec{a} \dots \dots (2)$$

Equating (1) and (2)

$$m\vec{a} = -k\vec{x}$$

$$\vec{a} = -\frac{k}{m}\vec{x}$$

$$\frac{k}{m} = \text{constant}$$

$$\vec{a} = -\text{Constant } \vec{x}$$

$$\vec{a} \propto -\vec{x}$$

Hence motion of mass spring system is SHM.

**Q:- Define the following**

### Wave form of SHM

The curve representing the variation of

# Hsc Physics Oscillation Chapter Notes

**RD Boyd**



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## **Table of Contents Hsc Physics Oscillation Chapter Notes**

1. Understanding the eBook Hsc Physics Oscillation Chapter Notes
  - The Rise of Digital Reading Hsc Physics Oscillation Chapter Notes
  - Advantages of eBooks Over Traditional Books
2. Identifying Hsc Physics Oscillation Chapter Notes
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Hsc Physics Oscillation Chapter Notes
  - User-Friendly Interface
4. Exploring eBook Recommendations from Hsc Physics Oscillation Chapter Notes
  - Personalized Recommendations
  - Hsc Physics Oscillation Chapter Notes User Reviews and Ratings
  - Hsc Physics Oscillation Chapter Notes and Bestseller Lists
5. Accessing Hsc Physics Oscillation Chapter Notes Free and Paid eBooks
  - Hsc Physics Oscillation Chapter Notes Public Domain eBooks
  - Hsc Physics Oscillation Chapter Notes eBook Subscription Services

- Hsc Physics Oscillation Chapter Notes Budget-Friendly Options
- 6. Navigating Hsc Physics Oscillation Chapter Notes eBook Formats
  - ePub, PDF, MOBI, and More
  - Hsc Physics Oscillation Chapter Notes Compatibility with Devices
  - Hsc Physics Oscillation Chapter Notes Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Hsc Physics Oscillation Chapter Notes
  - Highlighting and Note-Taking Hsc Physics Oscillation Chapter Notes
  - Interactive Elements Hsc Physics Oscillation Chapter Notes
- 8. Staying Engaged with Hsc Physics Oscillation Chapter Notes
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Hsc Physics Oscillation Chapter Notes
- 9. Balancing eBooks and Physical Books Hsc Physics Oscillation Chapter Notes
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Hsc Physics Oscillation Chapter Notes
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Hsc Physics Oscillation Chapter Notes
  - Setting Reading Goals Hsc Physics Oscillation Chapter Notes
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Hsc Physics Oscillation Chapter Notes
  - Fact-Checking eBook Content of Hsc Physics Oscillation Chapter Notes
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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