

displacement with time is called wave form of SHM.

Instantaneous displacement:-

The distance of vibrating body at any instant from its mean position is called instantaneous displacement.

Amplitude

Maximum displacement of vibrating body from mean position is called Amplitude.

Vibration

One complete round trip of a body about its mean position is called vibration.

Time period

Time require to complete one vibration is called Time period.

Frequency

Number of vibrations in one second by a vibrating body is called frequency.

$$f = \frac{1}{T}$$

Unit of frequency is Hertz (Hz).

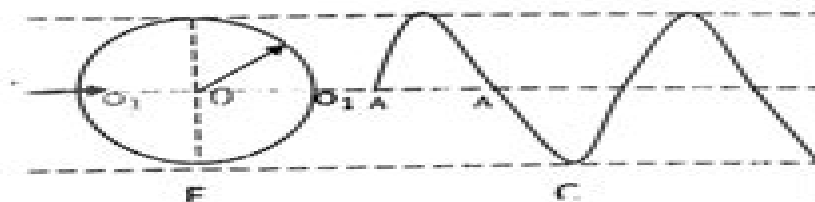
Angular frequency

If T is the time period of a body executing SHM then its angular frequency ω is defined as

$$\omega = \frac{2\pi}{T} \quad \text{or} \quad \omega = 2\pi f$$

Q:- Show that motion of projection of a body moving along a circular path is SHM.

Consider a mass m attached with the end of a vertically suspended spring. It vibrates with period T, frequency f and amplitude x_0 . The motion of the mass is displayed by a pointer P_1 .



At $t=0$ pointer is at position A then at position B, A, C and back to A at instant $\frac{T}{4}, \frac{T}{2}, \frac{3T}{4}$ and T respectively.

In circular motion, we consider motion of point N which is the projection of P along diameter DE.

Let point P is at O_1 at $t=0$ and projection N at instants $0, \frac{T}{4}, \frac{T}{2}, \frac{3T}{4}$ and T will be at O, D, O, E, O respectively.

Comparison of motion of N and P_1 shows that it is a copy of pointer motion. Hence the motion of projection of particle P moving in a circle is SHM.

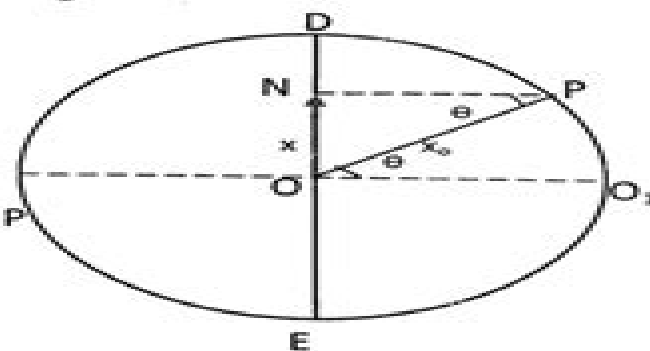
Q:- Derive relations for the followings:

(1- Instantaneous displacement

Let N be the projection of a particle P moving in a circle of radius x_0 with angular frequency ω as shown in figure.

Here

$$\theta = \omega t$$



In triangle ONP

$$\sin \theta = \frac{\text{perp}}{\text{hyp}} = \frac{|ON|}{|OP|}$$

$$\sin \theta = \frac{|ON|}{|OP|}$$

$$|ON| = |OP| \sin \theta$$

$$x = x_0 \sin \theta$$

$$x = x_0 \sin \omega t$$

This shows the displacement of point N at instant t.

Values of θ

- 1- At the start of cycle $\theta = 0^\circ$
- 2- When first quarter of cycle is completed $\theta = \frac{\pi}{2}$
- 3- When half of the cycle is completed $\theta = \pi$
- 4- when three fourth of cycle is completed $\theta = \frac{3\pi}{2}$
- 5- For complete cycle $\theta = 2\pi$

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P. G. J. T. Parkhouse



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Table of Contents Std12 Physics 1 Oscillation Chapter Imp Question

1. Understanding the eBook Std12 Physics 1 Oscillation Chapter Imp Question
 - The Rise of Digital Reading Std12 Physics 1 Oscillation Chapter Imp Question
 - Advantages of eBooks Over Traditional Books
2. Identifying Std12 Physics 1 Oscillation Chapter Imp Question
 - 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 Std12 Physics 1 Oscillation Chapter Imp Question
 - User-Friendly Interface
4. Exploring eBook Recommendations from Std12 Physics 1 Oscillation Chapter Imp Question
 - Personalized Recommendations
 - Std12 Physics 1 Oscillation Chapter Imp Question User Reviews and Ratings
 - Std12 Physics 1 Oscillation Chapter Imp Question and Bestseller Lists

5. Accessing Std12 Physics 1 Oscillation Chapter Imp Question Free and Paid eBooks
 - Std12 Physics 1 Oscillation Chapter Imp Question Public Domain eBooks
 - Std12 Physics 1 Oscillation Chapter Imp Question eBook Subscription Services
 - Std12 Physics 1 Oscillation Chapter Imp Question Budget-Friendly Options
6. Navigating Std12 Physics 1 Oscillation Chapter Imp Question eBook Formats
 - ePub, PDF, MOBI, and More
 - Std12 Physics 1 Oscillation Chapter Imp Question Compatibility with Devices
 - Std12 Physics 1 Oscillation Chapter Imp Question Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Std12 Physics 1 Oscillation Chapter Imp Question
 - Highlighting and Note-Taking Std12 Physics 1 Oscillation Chapter Imp Question
 - Interactive Elements Std12 Physics 1 Oscillation Chapter Imp Question
8. Staying Engaged with Std12 Physics 1 Oscillation Chapter Imp Question
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Std12 Physics 1 Oscillation Chapter Imp Question
9. Balancing eBooks and Physical Books Std12 Physics 1 Oscillation Chapter Imp Question
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Std12 Physics 1 Oscillation Chapter Imp Question
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Std12 Physics 1 Oscillation Chapter Imp Question
 - Setting Reading Goals Std12 Physics 1 Oscillation Chapter Imp Question
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Std12 Physics 1 Oscillation Chapter Imp Question
 - Fact-Checking eBook Content of Std12 Physics 1 Oscillation Chapter Imp Question
 - 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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