

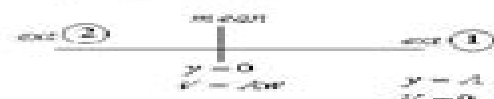
$$\therefore V = \omega\sqrt{A^2 - 0}$$

$$V = A\omega = \text{maximum}$$

Case(ii) When particle at extreme end  
 $y = A$

$$\therefore V = \omega\sqrt{A^2 - A^2}$$

$$V = 0 = \text{minimum}$$



c. Acceleration of a particle executing simple harmonic motion is given by

$$a = -A\omega^2 \sin(\omega t \pm \phi)$$

$$a = -\omega^2 y$$

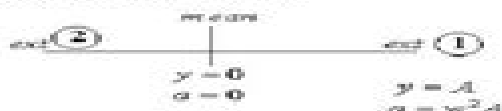
Case(i) When particle at mean

$$y = 0$$

$$a = 0$$

Case(ii) When particle at extreme  
 $y = A$

$$a = \omega^2 A \text{ maximum}$$



12. Time period of a particle executing simple harmonic motion is given by

$$T = 2\pi\sqrt{\frac{y}{a}}$$

Where  $y$  = displacement and  
 $a$  = acceleration

13. Simple pendulum

Time period of simple pendulum executing simple harmonic motion is given by

$$T = 2\pi\sqrt{\frac{l}{g}}$$

where  $l \rightarrow$  length of the simple pendulum

$g \rightarrow$  acceleration due to gravity

14. Laws of simple pendulum

a. Time period of a simple pendulum is directly proportional to square root of

its lengths  $T \propto \sqrt{l}$

b. time period of simple pendulum is inversely proportion to square root of the acceleration due to gravity

$$T \propto \frac{1}{\sqrt{g}}$$

$$T^2 \propto \frac{1}{g}$$

c. time period of simple pendulum is independent of mass and shape of the bob.

15. Loaded spring



i) If a mass  $M$  is suspended vertically from a spring and if the spring elongates ' $x$ ' then spring constant is

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

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

ii) time period of this loaded spring is

$$T = 2\pi\sqrt{\frac{M}{K}}$$

$$= 2\pi\sqrt{\frac{M}{\frac{Mg}{x}}} \Rightarrow T = 2\pi\sqrt{\frac{x}{g}}$$

iii) If a mass  $m$  is attached to the end of a spring and oscillates time period is

$$T = 2\pi\sqrt{\frac{m}{K}} \dots\dots\dots(1)$$

$$T = 2\pi\sqrt{\frac{m}{\frac{mg}{x}}}$$

# Harmonic Motion Ch 11 1 Answer Key

**F Rizvi**



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