

UNIT # 10

SIMPLE HARMONIC MOTION AND WAVES

Q1. Show that the motion of a mass attached to the end of a spring is simple harmonic motion (SHM).

Ans: Motion of mass attached to a spring:

Consider a mass "m" attached to the end of an elastic spring. The other end of the spring is fixed at the firm support as shown in figure. The whole system is placed on a smooth horizontal surface.

Displacement of the mass 'm':

If we displace the mass 'm' from its mean position 'O' to point "A" by applying an external force, it is displaced by '+ x' to its right, there will be elastic restoring force on the mass equal to F in the left side which is applied by the spring.

Restoring force:

A restoring force always pushes or pulls the object performing oscillatory motion towards the mean position.

Using Hook's Law:

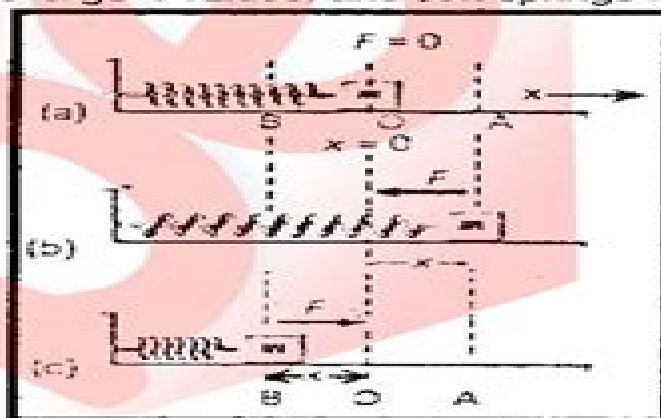
According to Hook's Law

$$F = - kx \dots\dots\dots (i)$$

Negative sign indicates that the elastic restoring force is opposite to the displacement.

Spring Constant:

k is Spring Constant. The value of k is a measure of the stiffness of the spring. Stiff springs have large k values, and soft springs have small k values.



SHM of a mass – spring system

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