

# Physics

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(Chapter 14) (Oscillations) (Exercises)  
(Class 11)

**Answer 14.13:**

(a) When a force  $F$ , is applied to the free end of the spring, an extension  $l$ , is produced. For the maximum extension, it can be written as:

$$F = kl$$

Where,  $k$  is the spring constant.

Hence, the maximum extension produced in the spring,  $l = \frac{F}{k}$

(b) For the two block system:

The displacement ( $x$ ) produced in this case is  $x = \frac{1}{2}$

Net force,  $F = +2kx = 2k \frac{1}{2}$

$$\therefore l = \frac{F}{K}$$

For the one block system:

For mass ( $m$ ) of the block, force is written as:  $F = ma = m \frac{d^2x}{dt^2}$

Where,  $x$  is the displacement of the block in time  $t$ .

$$\therefore m \frac{d^2x}{dt^2} = -kx$$

It is negative because the direction of elastic force is opposite to the direction of displacement.

$$\frac{d^2x}{dt^2} = -\left(\frac{k}{m}\right)x = -\omega^2x, \text{ Where, } \omega^2 = \frac{k}{m}$$

Where,  $\omega$  is angular frequency of the oscillation

$$\therefore \text{Time period of the oscillation, } T = \frac{2\pi}{\omega} = \frac{2\pi}{\sqrt{\frac{k}{m}}} = 2\pi\sqrt{\frac{m}{k}}$$

For the two block system:

$$F = m \frac{d^2x}{dt^2} \Rightarrow m \frac{d^2x}{dt^2} = -2kx$$

It is negative because the direction of elastic force is opposite to the direction of displacement.

Where,

$$\text{Angular frequency, } \omega = \sqrt{\frac{2k}{m}}$$

$$\therefore \text{Time period, } T = \frac{2\pi}{\omega} = 2\pi\sqrt{\frac{m}{2k}}$$

# Chapter 14 Physics Answers

**Francesco D'Auria, Yassin A. Hassan**

## Chapter 14 Physics Answers:

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Light and light based technologies have played an important role in transforming our lives via scientific contributions spanned over thousands of years In this book we present a vast collection of articles on various aspects of light and its applications in the contemporary world at a popular or semi popular level These articles are written by the world authorities in their respective fields This is therefore a rare volume where the world experts have come together to present the developments in this most important field of science in an almost pedagogical manner This volume covers five aspects related to light The first presents two articles one on the history of the nature of light and the other on the scientific achievements of Ibn Haitham Alhazen who is broadly considered the father of modern optics These are then followed by an article on ultrafast phenomena and the invisible world The third part includes papers on specific sources of light the discoveries of which have revolutionized optical technologies in our lifetime They discuss the nature and the characteristics of lasers Solid state lighting based on the Light Emitting Diode LED technology and finally modern electron optics and its relationship to the Muslim golden age in science The book s fourth part discusses various applications of optics and light in today s world including biophotonics art optical communication nanotechnology the eye as an optical instrument remote sensing and optics in medicine In turn the last part focuses on quantum optics a modern field that grew out of the interaction of light and matter Topics addressed include atom optics slow stored and stationary light optical tests of the foundation of physics quantum mechanical properties of light fields carrying orbital angular momentum quantum communication and Wave Particle dualism in action

**The GRE Test For Dummies®** Suzee Vlk,Michelle Rose Gilman,Veronica Saydak,2009-04-20

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