

# Physics

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(Chapter 8) (Gravitation) (Exercises)  
(Class 11)

## Question 8.6:

Choose the correct alternative:

- (a) If the zero of potential energy is at infinity, the total energy of an orbiting satellite is negative of its kinetic/potential energy.
- (b) The energy required to launch an orbiting satellite out of earth's gravitational influence is more/less than the energy required to project a stationary object at the same height (as the satellite) out of earth's influence.

## Answer 8.6:

- (a) Total mechanical energy of a satellite is the sum of its kinetic energy (always positive) and potential energy (may be negative). At infinity, the gravitational potential energy of the satellite is zero. As the Earth-satellite system is a bound system, the total energy of the satellite is negative. Thus, the total energy of an orbiting satellite at infinity is equal to the negative of its kinetic energy.
- (b) An orbiting satellite acquires a certain amount of energy that enables it to revolve around the Earth. This energy is provided by its orbit. It requires relatively lesser energy to move out of the influence of the Earth's gravitational field than a stationary object on the Earth's surface that initially contains no energy.

## Question 8.7:

Does the escape speed of a body from the earth depend on (a) the mass of the body, (b) the location from where it is projected, (c) the direction of projection, (d) the height of the location from where the body is launched?

## Answer 8.7:

- (a) The escape speed of a body from the earth doesn't depend on the mass of the body.
- (b) The escape speed of a body from the earth doesn't depend on the location from where it is projected.
- (c) The escape speed of a body from the earth doesn't depend on the direction of projection.
- (d) The escape speed of a body from the earth depends on the height of the location from where the body is launched.

Escape velocity of a body from the Earth is given by the relation:

$$v_{esc} = \sqrt{2gR} \quad \dots(i)$$

$g$  = Acceleration due to gravity and  $R$  = Radius of the Earth.

It is clear from equation (i) that escape velocity  $v_{esc}$  is independent of the mass of the body and the direction of its projection. However, it depends on gravitational potential at the point from where the body is launched. Since this potential marginally depends on the height of the point, escape velocity also marginally depends on these factors.

## Question 8.8:

A comet orbits the Sun in a highly elliptical orbit. Does the comet have a constant (a) linear speed, (b) angular speed, (c) angular momentum, (d) kinetic energy, (e) potential energy, (f) total energy throughout its orbit? Neglect any mass loss of the comet when it comes very close to the Sun.

# Chapter 8 Physics Answers

**Michael Reid**



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## **Table of Contents Chapter 8 Physics Answers**

1. Understanding the eBook Chapter 8 Physics Answers
  - The Rise of Digital Reading Chapter 8 Physics Answers
  - Advantages of eBooks Over Traditional Books
2. Identifying Chapter 8 Physics Answers
  - 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 Chapter 8 Physics Answers
  - User-Friendly Interface
4. Exploring eBook Recommendations from Chapter 8 Physics Answers
  - Personalized Recommendations
  - Chapter 8 Physics Answers User Reviews and Ratings
  - Chapter 8 Physics Answers and Bestseller Lists

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