

Chapter 2: Objective Questions

- 1. Are the following statements True (or) False? [6 marks]**
- For uniform circular motion, the acceleration is centrifugal acceleration.
 - The larger the rotating speed, the smaller the centripetal force needed.
 - The larger the radius of the rotating path, the smaller the centripetal force needed.
 - A body moving with non-uniform circular motion does not need centripetal force.
 - A body moving with uniform circular motion needs centrifugal force.
 - When whirling a ball with a string, the tension on the hand is the centrifugal force.
- 2. Fill in the blanks. [7 marks]**
- The force that enables an object to keep it moving in the circle is the _____ force.
 - The centripetal acceleration directed towards the _____ of the circle at any moment.
 - The _____ action of a washing machine is used in spin drying the clothes.
 - The _____ is a device used to measure and regulate the speed of a machine.
 - _____ is a hydraulic machine which converts mechanical energy into hydraulic energy.
 - The centrifugal force is an apparent force which is equal and opposite to the _____ force.
 - An object in a circular motion must have a net force directed towards the _____ of the circle.
- 3. Choose the correct answer. Just write the question number and the correct letter. [7 marks]**
- Centripetal force needed will be _____ if the mass of the rotating body is larger.
(A) larger (B) smaller (C) the same
 - Centripetal force needed will be _____ if the tangential velocity becomes larger.
(A) larger (B) smaller (C) the same
 - Centripetal force needed will be _____ if the angular velocity becomes larger.
(A) larger (B) smaller (C) the same
 - The limiting speed in a banked curved road will be _____ if the banking angle is larger.
(A) larger (B) smaller (C) the same
 - The limiting speed in a banked curved road will be _____ if the mass of the car is larger.
(A) larger (B) smaller (C) the same
 - The limiting speed in a banked curved road will be _____ if the radius is larger.
(A) larger (B) smaller (C) the same
 - Centripetal force needed will be _____ if the radius becomes larger.
(A) larger (B) smaller (C) the same

[KEYS]

1.	(i) False	(ii) False	(iii) True	(iv) False	(v) False	(vi) False	1 × 6
2.	(i) centripetal	(ii) centre	(iii) centrifugal	(iv) centrifugal governor			1 × 7
	(v) Centrifugal pump	(vi) centripetal	(vii) centre				
3.	(i) A	(ii) A	(iii) A	(iv) A	(v) C	(vi) A (vii) B	1 × 7

Answers For Apex Physics Semester 2

Jin-Ying Zhang



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Muldner, Rose Luckin, Eva Millán, 2020-07-04 This two volume set LNAI 12163 and 12164 constitutes the refereed proceedings of the 21th International Conference on Artificial Intelligence in Education AIED 2020 held in Ifrane Morocco in July 2020 The 49 full papers presented together with 66 short 4 industry innovation 4 doctoral consortium and 4 workshop papers were carefully reviewed and selected from 214 submissions The conference provides opportunities for the cross fertilization of approaches techniques and ideas from the many fields that comprise AIED including computer science cognitive and learning sciences education game design psychology sociology linguistics as well as many domain specific areas The conference was held virtually due to the COVID 19 pandemic

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Table of Contents Answers For Apex Physics Semester 2

1. Understanding the eBook Answers For Apex Physics Semester 2
 - The Rise of Digital Reading Answers For Apex Physics Semester 2
 - Advantages of eBooks Over Traditional Books
2. Identifying Answers For Apex Physics Semester 2
 - 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 Answers For Apex Physics Semester 2
 - User-Friendly Interface
4. Exploring eBook Recommendations from Answers For Apex Physics Semester 2
 - Personalized Recommendations
 - Answers For Apex Physics Semester 2 User Reviews and Ratings
 - Answers For Apex Physics Semester 2 and Bestseller Lists
5. Accessing Answers For Apex Physics Semester 2 Free and Paid eBooks
 - Answers For Apex Physics Semester 2 Public Domain eBooks
 - Answers For Apex Physics Semester 2 eBook Subscription Services
 - Answers For Apex Physics Semester 2 Budget-Friendly Options
6. Navigating Answers For Apex Physics Semester 2 eBook Formats
 - ePub, PDF, MOBI, and More
 - Answers For Apex Physics Semester 2 Compatibility with Devices
 - Answers For Apex Physics Semester 2 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Answers For Apex Physics Semester 2
 - Highlighting and Note-Taking Answers For Apex Physics Semester 2
 - Interactive Elements Answers For Apex Physics Semester 2

8. Staying Engaged with Answers For Apex Physics Semester 2
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Answers For Apex Physics Semester 2
9. Balancing eBooks and Physical Books Answers For Apex Physics Semester 2
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Answers For Apex Physics Semester 2
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Answers For Apex Physics Semester 2
 - Setting Reading Goals Answers For Apex Physics Semester 2
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Answers For Apex Physics Semester 2
 - Fact-Checking eBook Content of Answers For Apex Physics Semester 2
 - 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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