Final Examination

Course: PHYS 204-Sections 01, EC1, EC2, EC3

Date: December 10/2021 Exam time: 14:00 - 16:00

Instructor: Natalia Vasilyeva (01), Seyyed Nima Nateghi (EC1), Georges Abinader (EC2, EC3)

Multiple Choice

- (4 marks) The motion of an object moving along a straight line is shown in the acceleration-time graph. What is the change in velocity of the object during the first 5 seconds?
 - a) 5 m/s
 - b) 7.5 m/s
 - c) -12.5 m/s
 - d) -7.5 m/s
 - e) 12.5 m/s.



- 2. (4 marks) If only two forces $\vec{F}_1 = (3\hat{\imath} 8\hat{\jmath}) N$ and $\vec{F}_2 = (5\hat{\imath} + 3\hat{\jmath}) N$ act upon a 2-kg box, what is the magnitude of the acceleration of the box?
 - a) 1.5 m/s²
 - b) 6.5 m/s²
 - c) $4.7 \, \text{m/s}^2$
 - d) 9.4 m/s²
 - e) $7.2 \,\text{m/s}^2$
- (4 marks) A 5-kg mass is suspended by a string from the ceiling of an elevator that is
 moving upward with a speed which is decreasing at a constant rate of 2 m/s in each
 second. What is the tension in the string supporting the mass? Take g = 10 m/s
 - a) 50 N
 - b) 40 N
 - c) 60 N
 - d) 10 N
 - e) 45 N
- (4 marks) As a block is pushed by someone down a rough incline:
 - a) Gravity does negative work on the block
 - b) Friction does negative work on the block
 - c) Both gravity and friction do negative work on the block

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Table of Contents Physics 21final Exam With Solutions

- 1. Understanding the eBook Physics 21final Exam With Solutions
 - The Rise of Digital Reading Physics 21final Exam With Solutions
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Physics 21final Exam With Solutions
 - 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 Physics 21final Exam With Solutions
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Physics 21final Exam With Solutions
 - Personalized Recommendations
 - Physics 21final Exam With Solutions User Reviews and Ratings
 - Physics 21final Exam With Solutions and Bestseller Lists
- 5. Accessing Physics 21final Exam With Solutions Free and Paid eBooks
 - Physics 21final Exam With Solutions Public Domain eBooks
 - Physics 21final Exam With Solutions eBook Subscription Services
 - Physics 21final Exam With Solutions Budget-Friendly Options
- 6. Navigating Physics 21final Exam With Solutions eBook Formats

- ∘ ePub, PDF, MOBI, and More
- Physics 21final Exam With Solutions Compatibility with Devices
- Physics 21final Exam With Solutions Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - o Adjustable Fonts and Text Sizes of Physics 21final Exam With Solutions
 - Highlighting and Note-Taking Physics 21final Exam With Solutions
 - Interactive Elements Physics 21final Exam With Solutions
- 8. Staying Engaged with Physics 21final Exam With Solutions
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Physics 21final Exam With Solutions
- 9. Balancing eBooks and Physical Books Physics 21final Exam With Solutions
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Physics 21final Exam With Solutions
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Physics 21final Exam With Solutions
 - Setting Reading Goals Physics 21final Exam With Solutions
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Physics 21final Exam With Solutions
 - Fact-Checking eBook Content of Physics 21final Exam With Solutions
 - 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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