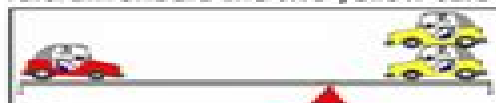


REVIEW EXAM IN GENERAL PHYSICS 1

Name: _____ Sec: _____ Date: _____ Score: _____

I. Write the CAPITAL letter of the correct answer in the space provided. (20 pts)

1. Which of the following angle measures between the force applied and the lever arm will not produce any torque? 1. _____
 A. 0° B. 45° C. 90° D. 180°
2. To open the door, where must the force be exerted to produce the greatest torque? 2. _____
 A. near the hinges C. in the middle of the door
 B. at the top of the door D. at the edge of the door far from the hinges
3. What happens to the torque applied on a rigid body if the force applied is doubled? 3. _____
 A. it will remain the same. C. It will be doubled also
 B. it will become one-half of the original. D. it will increase four times the original.
4. A uniform beam with a length L is lifted from one end with a force F . If the beam's length is halved and so is its mass, what will be the force required to lift it? 4. _____
 A. $\frac{1}{4}F$ B. $\frac{1}{2}F$ C. F D. $2F$
5. As shown below, the 2 yellow cars are balanced by the red car on a uniform beam of length L . if the mass of the cars is identical, and the red car is $\frac{1}{4}L$ from the fulcrum, how far from the fulcrum should the two yellow cars be? 5. _____



- A. $\frac{1}{4}L$ B. $\frac{1}{3}L$ C. $\frac{1}{2}L$ D. L

6. A 5 – kg, uniform, 4 m bar is balanced by two masses (20 kg and 35 kg) as shown below. How far away from the 35 – kg mass must the fulcrum be placed? 6. _____



- A. 1.45 m B. 1.50 m C. 1.60 m D. 1.68 m

7. A 50 – N force is applied perpendicular to the wrench to tighten a nut. If the force is applied 30 cm from the axis of rotation and forms 70° angle with the wrench, what is the torque applied? 7. _____
 A. 14.1 N m B. 15 N m C. 1409.5 N m D. 1500 N m
8. Two students sit on either end of a uniform bar with the fulcrum located at the center. Student 1 sits 1.10 m from the fulcrum while Student 2 sits 0.85 m. If Student 1 has a mass of 72 kg, what is the mass of Student 2? 8. _____



- A. 55.64 kg B. 79.20 kg C. 85.46 kg D. 93.18 kg

9. An object is moving in a uniform circular motion of radius r and a linear speed v . if the radius remains and the linear speed doubles, what must be the new centripetal force? 9. _____
 A. It should remain the same. C. It should be twice of the original.
 B. It should be one-half of the original. D. It should be four times of the original.

Departmental Final Exam For Physics 1

Karin Nielsen-Saines



Departmental Final Exam For Physics 1:

Unveiling the Magic of Words: A Overview of "**Departmental Final Exam For Physics 1**"

In a global defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their ability to kindle emotions, provoke contemplation, and ignite transformative change is truly awe-inspiring. Enter the realm of "**Departmental Final Exam For Physics 1**," a mesmerizing literary masterpiece penned by way of a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve to the book is central themes, examine its distinctive writing style, and assess its profound effect on the souls of its readers.

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Table of Contents Departmental Final Exam For Physics 1

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

5. Accessing Departmental Final Exam For Physics 1 Free and Paid eBooks
 - Departmental Final Exam For Physics 1 Public Domain eBooks
 - Departmental Final Exam For Physics 1 eBook Subscription Services
 - Departmental Final Exam For Physics 1 Budget-Friendly Options
6. Navigating Departmental Final Exam For Physics 1 eBook Formats
 - ePub, PDF, MOBI, and More
 - Departmental Final Exam For Physics 1 Compatibility with Devices
 - Departmental Final Exam For Physics 1 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Departmental Final Exam For Physics 1
 - Highlighting and Note-Taking Departmental Final Exam For Physics 1
 - Interactive Elements Departmental Final Exam For Physics 1
8. Staying Engaged with Departmental Final Exam For Physics 1
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Departmental Final Exam For Physics 1
9. Balancing eBooks and Physical Books Departmental Final Exam For Physics 1
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Departmental Final Exam For Physics 1
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Departmental Final Exam For Physics 1
 - Setting Reading Goals Departmental Final Exam For Physics 1
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Departmental Final Exam For Physics 1
 - Fact-Checking eBook Content of Departmental Final Exam For Physics 1
 - 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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