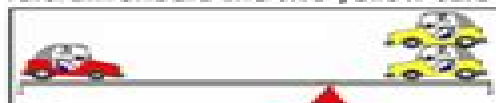


REVIEW EXAM IN GENERAL PHYSICS 1

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.

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M Tight



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