

Practice Final Exam. Please do all of the following problems. You are allowed to have a formula sheet, calculator and ruler. Please show your work.

Part I. Multiple Choice Problems. Each question is worth 6 points.

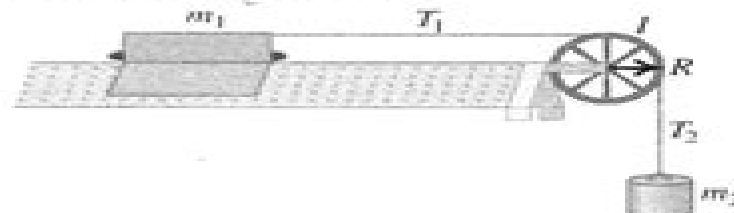
1. Two objects with different masses collide and stick to each other. Compared to before the collision, the system of two objects after the collision has

- A. the same total momentum and the same total kinetic energy.
- ☒ B. the same total momentum but less total kinetic energy.
- C. less total momentum but the same total kinetic energy.
- D. less total momentum and less total kinetic energy.
- E. not enough information given to decide



2. A glider of mass m_1 on a frictionless horizontal track is connected to an object of mass m_2 by a massless string. The glider accelerates to the right, the object accelerates downward, and the string rotates the pulley. What is the relationship between T_1 (the tension in the horizontal part of the string), T_2 (the tension in the vertical part of the string), and the weight m_2g of the object?

- A. $m_2g = T_2 = T_1$
- B. $m_2g > T_2 = T_1$
- ☒ C. $m_2g > T_2 > T_1$
- D. $m_2g = T_2 > T_1$
- E. none of the above



3. Compared to the Earth, Planet X has twice the mass and twice the radius. This means that compared to the Earth's surface gravity, the surface gravity on Planet X is

- A. 4 times as much.
- B. twice as much.
- ☒ C. the same.
- D. 1/2 as much.
- E. 1/4 as much.

4. A satellite is moving around the Earth in a circular orbit. Over the course of an orbit, the Earth's gravitational force

- A. does positive work on the satellite.
- B. does negative work on the satellite.
- C. does positive work on the satellite during part of the orbit and negative work on the satellite during the other part.
- ☒ D. does zero work on the satellite at all points in the orbit.

Physics 1 Final Exam Questions And Solutions

A Loxley



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