

Note:

- + Students are allowed to use one hand-written A4 paper sheet as a memory aid.
- + Proctors are NOT allowed to explain anything related to the contents of the test.
- + The free fall acceleration is: $g = 9.81 \text{ m/s}^2$

Question 1: (1.0 mark) A boy is riding on a Ferris wheel that is rotating at constant speed. The car in which the boy is riding always maintains its correct upward orientation and does not invert. Consider the magnitude of the normal force on the boy from the seat. When is it larger: at the top or the bottom of the wheel? Explain your answer.

Question 2: (1.0 mark) A car initially traveling eastward turns north by traveling in a circular path at uniform speed as shown in Figure 1. The length of the arc ABC is 250 m, and the car completes the turn in 40.0 s.

- Determine the car's average speed during this 40.0-s interval.
- What is the acceleration when the car is at B located at an angle of 40.0° ? Express your answer in terms of the unit vectors $\hat{i}$ and $\hat{j}$.



Figure 1

Question 3: (1.0 mark) Two objects are at rest on a frictionless surface. Object 1 has a greater mass than object 2 ($m_1 > m_2$). A constant force F is applied to the objects, one by one, and accelerates them through the distance d in a straight line. At the end of this distance, which object will have larger linear momentum? Explain your answer.

Question 4: (1.0 mark) A 2.50-kg iron horseshoe initially at 600°C is dropped into a bucket containing 30.0 kg of water at 25.0°C . What is the final temperature of the water-horseshoe system? Ignore the heat capacity of the container and assume a negligible amount of water boils away. The specific heat of iron and water are 448 J/kgK and 4186 J/kgK respectively.

Question 5: (2.0 marks) A block of mass $m_1 = 2.00 \text{ kg}$ and a block of mass $m_2 = 6.00 \text{ kg}$ are connected by a massless string over a pulley in the shape of a solid disk having radius $R = 0.250 \text{ m}$ and mass $M = 3.00 \text{ kg}$. The fixed, wedgeshaped ramp makes an angle of $\theta = 40.0^\circ$ as shown in Figure 2. The coefficient of kinetic friction is 0.250 for both blocks.



Figure 2

- Draw force diagrams of both blocks and of the pulley.
- Determine the acceleration of the two blocks.
- Calculate the tensions in the string on both sides of the pulley.

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