



PHYS1534
Time: 1h

Semester Test 2

11 May 2019
Marks: 50

Assessors: Dr. S. Gropé
Dr. R. Tshabalala
Moderator: Dr. R. Harris

Section A

Choose the most correct answer from those given and colour in the dot of the corresponding letter next to the question number on the optical card. Please use a pencil on the optical card and make sure your surname and student number is filled in correctly.

1. A kilowatt hour is a unit of:
A) power B) energy/time C) energy
D) power/time E) force/distance
2. A sledge (including load) weighs 6000 N. It is pulled on level snow by a dog team exerting a horizontal force on it. The coefficient of kinetic friction between sledge and snow is 0.05. How much work is done by the dog team pulling the sledge for a 1000 m at constant speed?
A) 0 J B) 1.5×10^2 J C) 3.0×10^2 J
D) 2.0×10^2 J E) 3.0×10^2 J
3. A 50.0-kg cart is moving horizontally at 6.0 m/s. In order to change its speed to 12.0 m/s, the net work done on the cart must be:
A) 0 J B) 450 J C) 900 J D) 2700 J E) 3600 J
4. A good example of kinetic energy is provided by:
A) a wound up clock spring
B) the raised weights of a grandfather's clock
C) a tornado
D) a gallon of gasoline
E) an automobile storage battery
5. For a block of mass m to slide without friction up the rise of height h shown, it must have a minimum initial kinetic energy of:
A) gh
B) mgh
C) $gh/2$
D) $mgh/2$
E) $2mgh$



Physical Science Trial Paper 2014

Wolfgang Guggemos



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