

**Engineering Physics I – Fall 2015**

**Quiz 6 – October 22, 2015**

**Name:**

- 1. True or false**      If the only force present is the gravitational force, kinetic energy will be conserved
- 2. True or False**      The work done on an object only depends on the net force applied to the object.
- 3. True or False**      The work-energy theorem only applies to conservative forces.

**4. What forces do work on a block as it slides down an inclined plane (see figure)?**

Gravitational force	Friction force (if present)	Normal force
---------------------	-----------------------------	--------------

**5. What forces do work on a block as it slides across a horizontal table?**

Gravitational force	Friction force (if present)	Normal force
---------------------	-----------------------------	--------------

