

Name \_\_\_\_\_

**MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.**

- 1) The greater an object's mass at a given speed, the \_\_\_\_\_ kinetic energy it possesses. 1) \_\_\_\_\_  
A) greater  
B) less  
C) equal  
D) none of these
- 2) A dynamometer actually measures the \_\_\_\_\_ output of an engine. 2) \_\_\_\_\_  
A) torque  
B) power  
C) force  
D) none of these
- 3) Technician A says that work is being performed if a force is being applied, yet the object does not move. Technician B says that torque is a twisting force that may or may not result in motion. Which technician is correct? 3) \_\_\_\_\_  
A) Technician A only  
B) Technician B only  
C) Both technicians  
D) Neither technician
- 4) What term describes the ability to do work? 4) \_\_\_\_\_  
A) Energy  
B) Force  
C) Potential  
D) Thermodynamics
- 5) Technician A says that torque always involves movement. Technician B says that torque may be multiplied by leverage. Which technician is correct? 5) \_\_\_\_\_  
A) Technician A only  
B) Technician B only  
C) Both technicians  
D) Neither technician
- 6) An example of a lever and mechanical advantage used on a vehicle is the \_\_\_\_\_. 6) \_\_\_\_\_  
A) radio volume control  
B) brake pedal  
C) fuel tank  
D) battery
- 7) Work describes the movement of an object when force is applied. 7) \_\_\_\_\_  
A) True  
B) False

8) Two technicians are discussing temperature and heat. Technician A says that temperature is the intensity of the heat source. Technician B says that heat is the amount of heat. Which technician is correct? 8) \_\_\_\_\_

- A) Technician A only
- B) Technician B only
- C) Both technicians
- D) Neither technician

9) Heat can be transferred by how many different methods? 9) \_\_\_\_\_

- A) Three
- B) Six
- C) Four
- D) None of these

10) The type of plastic can be determined by using a \_\_\_\_\_ test. 10) \_\_\_\_\_

- A) burn
- B) weight
- C) color
- D) depression