

*Electric and Hybrid Electric Vehicles, 1st Edition*

**Quiz 7A**

**NAME** \_\_\_\_\_

1. Technician A says that a kilowatt (kW) is a measure of power. Technician B says that kilowatt-hour (kWh) is a measure of power. Which technician is correct? 1. \_\_\_\_\_
  - A) Technician A only
  - B) Technician B only
  - C) Both technicians A and B
  - D) Neither technician A nor B
  
2. Which of these is defined as the rate of doing work or the rate at which work is being done? 2. \_\_\_\_\_
  - A) Kinetic energy
  - B) Power
  - C) Torque
  - D) Work
  
3. Which of these is Watt's law? 3. \_\_\_\_\_
  - A)  $P = I + E$
  - B)  $P = I \times E$
  - C)  $W = A \times \Omega$
  - D)  $W = A + T$
  
4. Direct current (DC) is produced by \_\_\_\_\_. 4. \_\_\_\_\_
  - A) solar panels
  - B) generators
  - C) thermal wells
  - D) Any of these
  
5. If it takes 50 pounds of force to move an object 10 feet, how much work has been done? 5. \_\_\_\_\_
  - A) 1,000 foot-pounds
  - B) 10 foot-pounds
  - C) 500 foot-pounds
  - D) None of these
  
6. In SI units (International System of Units) energy is measured in which of these units? 6. \_\_\_\_\_
  - A) Ohm s
  - B) Joules
  - C) Volts
  - D) Newtons
  
7. Technician A says that solar panels produce DC electricity. Technician B says that solar panels use semiconductors in their operation. Which technician is correct? 7. \_\_\_\_\_
  - A) Technician A only
  - B) Technician B only
  - C) Both technicians A and B
  - D) Neither technician A nor B

8. Which of these defined as the product of a force and the perpendicular distance between the line of action of the force and the axis of rotation? 8. \_\_\_\_\_

- A) Kinetic energy
- B) Potential energy
- C) Torque
- D) Work

9. \_\_\_\_\_ is defined as the production of electric current at the interface of two semiconductor materials. 9. \_\_\_\_\_

- A) Photovoltaics
- B) Ohm's law
- C) Watt's law
- D) Any of the above

10. Which of these is the SI unit of power? 10. \_\_\_\_\_

- A) Joule
- B) Ampere
- C) Watt
- D) Volt

## Answer Key

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4. A  
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5. C  
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6. B  
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