

Electric and Hybrid Electric Vehicles, 1st Edition

Quiz 7B

NAME _____

1. Which of these is the SI unit of power? 1. _____
 - A) Joule
 - B) Ampere
 - C) Watt
 - D) Volt

2. Which of these is Watt's law? 2. _____
 - A) $P = I + E$
 - B) $P = I \times E$
 - C) $W = A \times \Omega$
 - D) $W = A + T$

3. 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? 3. _____
 - A) Technician A only
 - B) Technician B only
 - C) Both technicians A and B
 - D) Neither technician A nor B

4. Which of these is defined as the rate of doing work or the rate at which work is being done? 4. _____
 - A) Kinetic energy
 - B) Power
 - C) Torque
 - D) Work

5. Technician A says energy from the sun is radiant energy. Technician B says that energy from the sun is thermal energy. Which technician is correct? 5. _____
 - A) Technician A only
 - B) Technician B only
 - C) Both technicians A and B
 - D) Neither technician A nor B

6. _____ is defined as the production of electric current at the interface of two semiconductor materials. 6. _____
 - A) Photovoltaics
 - B) Ohm's law
 - C) Watt's law
 - D) Any of the above

7. Thermal or heat energy is internal energy present in a system due to its _____. 7. _____
 - A) weight
 - B) temperature
 - C) mass
 - D) density

8. Technician A says that solar panels produce DC electricity. Technician B says that solar panels use semiconductors in their operation. Which technician is correct? 8. _____
- A) Technician A only
 - B) Technician B only
 - C) Both technicians A and B
 - D) Neither technician A nor B
9. Direct current (DC) is produced by _____. 9. _____
- A) solar panels
 - B) generators
 - C) thermal wells
 - D) Any of these
10. Hydroelectricity uses _____ to produce electrical current. 10. _____
- A) hydrogen
 - B) thermal energy
 - C) flowing water
 - D) static water pressure

Answer Key

Testname: EV1_7B

1. C
Page Ref: 80
2. B
Page Ref: 82
3. A
Page Ref: 81
4. B
Page Ref: 79
5. C
Page Ref: 79
6. A
Page Ref: 81
7. B
Page Ref: 78
8. C
Page Ref: 82
9. A
Page Ref: 81
10. C
Page Ref: 85