

Electric and Hybrid Electric Vehicles, 1st Edition

Quiz 19A

NAME _____

1. Hydrogen storage tanks are usually constructed from _____. 1. _____
 - A) steel
 - B) aluminum
 - C) carbon fiber
 - D) Both b and c

2. Hydrogen can be produced from _____. 2. _____
 - A) water
 - B) natural gas
 - C) crude oil
 - D) Any of the above

3. A fuel cell produces electricity from _____ and _____. 3. _____
 - A) gasoline; oxygen
 - B) nitrogen; hydrogen
 - C) hydrogen; oxygen
 - D) water; oxygen

4. Technician A says that fuel cell vehicles may use an electric storage device. Technician B says that fuel cell vehicles that use a storage device to help power the vehicle are called fuel cell hybrid vehicles. Which technician is correct? 4. _____
 - A) Technician A only
 - B) Technician B only
 - C) Both technicians A and B
 - D) Neither technician A nor B

5. The commonly used pressures at hydrogen filling stations include _____. 5. _____
 - A) H35
 - B) H70
 - C) H93
 - D) Either a or b

6. Which of the following describes why fuel cell technology is not in mass production? 6. _____
 - A) High cost
 - B) Lack of durability
 - C) Insufficient power density
 - D) All of these are reasons vehicles with fuel cells are not currently mass-produced.

7. Technician A says that a fuel cell stack consists of a number of fuel cells connected in parallel. Technician B says that a fuel cell stack consists of a number of fuel cells connected in series. 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. Technician A says that fuel cells produce large amounts of heat. Technician B says that fuel cell energy production creates "low grade" heat. 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. Which is NOT a function of an ultracapacitor? 9. _____
- A) Can pass AC current
 - B) Can be charged with DC current
 - C) Discharges DC current
 - D) Can pass DC current
10. Technician A says that fuel cells are categorized according to the type of electrolyte used. Technician B says that all fuel cells operate most efficiently at 500°F. Which technician is correct? 10. _____
- A) Technician A only
 - B) Technician B only
 - C) Both technicians A and B
 - D) Neither technician A nor B

Answer Key

Testname: EV1_19A

1. D
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2. D
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3. C
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4. C
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5. D
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6. D
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7. B
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8. B
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9. D
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10. A
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