

Name \_\_\_\_\_

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

- 1) A fuel cell produces electricity from \_\_\_\_\_ and \_\_\_\_\_. 1) \_\_\_\_\_
  - A) Gasoline/ oxygen
  - B) Nitrogen/ hydrogen
  - C) Hydrogen/ oxygen
  - D) Water/ oxygen
  
- 2) 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? 2) \_\_\_\_\_
  - A) Technician A
  - B) Technician B
  - C) Both Technicians
  - D) Neither Technician
  
- 3) Technician A says that electrons in a fuel cell flow from the cathode to the anode. Technician B says that electrons in a fuel cell flow from the anode to the cathode. Which technician is correct? 3) \_\_\_\_\_
  - A) Technician A
  - B) Technician B
  - C) Both Technicians
  - D) Neither Technician
  
- 4) What term describes the process of passing electrical current through water to break it into oxygen and hydrogen? 4) \_\_\_\_\_
  - A) Electrolysis
  - B) hydro division
  - C) Electric induction
  - D) None of these
  
- 5) 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? 5) \_\_\_\_\_
  - A) Technician A
  - B) Technician B
  - C) Both Technicians
  - D) Neither Technician
  
- 6) Hydrogen is commonly stored at what pressure? 6) \_\_\_\_\_
  - A) 100,000 psi
  - B) 50,000 psi
  - C) 5000 psi
  - D) 1000 psi

- 7) Technician A says that hydrogen is the fuel source for a fuel cell. Technician B says that hydrogen is an energy carrier for a fuel cell. Which technician is correct? 7) \_\_\_\_\_
- A) Technician A
  - B) Technician B
  - C) Both Technicians
  - D) Neither Technician
- 8) Which term describes the entire fuel cycle, from the time a fuel is extracted or produced until it is spent in the vehicle? 8) \_\_\_\_\_
- A) Well-to-wheel efficiency
  - B) Fuel efficiency
  - C) Coefficient of energy transfer
  - D) None of these
- 9) Which type of fuel cell is the most likely to be used to power vehicles? 9) \_\_\_\_\_
- A) PAFC
  - B) PEM
  - C) MCFC
  - D) SOFC
- 10) What type of electrical current does a fuel cell generate? 10) \_\_\_\_\_
- A) Direct current
  - B) Alternating current
  - C) Both A and B
  - D) Neither A nor B

## Answer Key

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1) C

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2) C

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3) B

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4) A

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5) B

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6) C

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7) B

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8) A

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9) B

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10) A

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