

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

- 3) Which of the following describes why fuel cell technology is NOT in mass production? 3) _____
 - A) High cost
 - B) Lack of durability
 - C) Insufficient power density
 - D) All of these are correct

- 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) Which of the following is produced during the fuel cell energy production process? 5) _____
 - A) Water
 - B) CO
 - C) CO₂
 - D) None of these

- 6) Which fuel cell is best suited to automotive applications? 6) _____
 - A) PEM
 - B) PAFC
 - C) MCFC
 - D) None of these

- 7) The negative electrode in a fuel cell is called the _____. 7) _____
 - A) Anode
 - B) Cathode
 - C) Diode
 - D) None of these

- 8) A plug-in hybrid is different from a conventional hybrid electric vehicle because it has _____. 8) _____
- A) A built-in battery charger
 - B) LiOx batteries
 - C) More batteries
 - D) Bigger motor / generator
- 9) Hydrogen storage tanks are usually constructed from _____. 9) _____
- A) Steel
 - B) Aluminum
 - C) Carbon fiber
 - D) Both B and C
- 10) The chemical reaction in a fuel cell is called electrolysis. 10) _____
- A) True
 - B) False

Answer Key

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1) C

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2) B

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3) D

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4) A

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5) A

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6) A

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7) A

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8) C

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9) D

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10) B

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