

Name _____

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

- 1) What term describes the process of passing electrical current through water to break it into oxygen and hydrogen? 1) _____
A) Electrolysis
B) Hydro division
C) Electric induction
D) None of these

- 2) Which of the following is produced during the fuel cell energy production process? 2) _____
A) Water vapor
B) CO
C) CO₂
D) None of these

- 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 reasons vehicles with fuel cells are not currently mass-produced.

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

- 5) What does H70-T40 mean when describing a hydrogen filling station? 5) _____
A) The type of hydrogen
B) The temperature and pressure rating
C) The size of the storage tank
D) The estimated time needed to fill the tank

- 6) What are the by-products (emissions) from a fuel cell? 6) _____
A) Water vapor
B) CO₂
C) CO
D) Nonmethane hydrocarbon

- 7) Which liquid fuel could be used to directly power a fuel cell? 7) _____
A) Methanol
B) Ethanol
C) Biodiesel
D) Unleaded gasoline

- 8) 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? 8) _____
- A) Technician A only
 - B) Technician B only
 - C) Both technicians
 - D) Neither technician
- 9) Hydrogen is commonly stored at what pressure? 9) _____
- A) 100,000 psi
 - B) 50,000 psi
 - C) 5000 psi
 - D) 1000 psi
- 10) Hydrogen storage tanks are usually constructed from _____. 10) _____
- A) steel
 - B) aluminum
 - C) carbon fiber
 - D) both B and C