

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) A plug-in hybrid is different from a conventional hybrid electric vehicle because it has _____. 2) _____
 - A) A built-in battery charger
 - B) LiOx batteries
 - C) More batteries
 - D) Bigger motor/ generator

- 3) Technician A says that fuel cell cooling systems can use heat exchangers with small surface areas. Technician B says that fuel cell cooling systems must use heat exchangers with large surface areas. Which technician is correct? 3) _____
 - A) Technician A only
 - B) Technician B only
 - C) Both technicians
 - D) Neither technician

- 4) What type of electrical current does a fuel cell generate? 4) _____
 - A) Direct current
 - B) Alternating current
 - C) Both A and B
 - D) Neither A nor B

- 5) A level 2 electric vehicle charging station operates on _____ volts. 5) _____
 - A) 110
 - B) 117
 - C) 440
 - D) 220

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

- 7) The chemical reaction in a fuel cell is called electrolysis. 7) _____
 - A) True
 - B) False

8) 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? 8) _____

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

9) Hydrogen storage tanks are usually constructed from _____. 9) _____

- A) Steel
- B) Aluminum
- C) Carbon fiber
- D) Both B and C

10) How energy-efficient is a typical internal combustion engine? 10) _____

- A) 15-20%
- B) 40-60%
- C) 5-10%
- D) None of these

Answer Key

Testname: AEEP8_46B

1) C

Page Ref: 671

2) C

Page Ref: 680

3) B

Page Ref: 673

4) A

Page Ref: 672

5) D

Page Ref: 682

6) A

Page Ref: 672

7) B

Page Ref: 670

8) C

Page Ref: 670

9) D

Page Ref: 677

10) A

Page Ref: 670