

Name _____

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

- 1) Hydrogen storage tanks are usually constructed from _____. 1) _____
 - A) Steel
 - B) Aluminum
 - C) Carbon fiber
 - D) Both B and C

- 2) A fuel cell produces electricity from _____ and _____. 2) _____
 - A) Gasoline; oxygen
 - B) Nitrogen; hydrogen
 - C) Hydrogen; oxygen
 - D) Water; oxygen

- 3) Which type of fuel cell is the most likely to be used to power vehicles? 3) _____
 - A) PAFC
 - B) PEM
 - C) MCFC
 - D) SOFC

- 4) Which energy sources are currently being used to help reduce the use of fossil fuels? 4) _____
 - A) Hydrogen
 - B) Wind power
 - C) Hydroelectric power
 - D) Both B and C

- 5) An ultra-capacitor is used to store _____. 5) _____
 - A) Hydrogen
 - B) Protons
 - C) Electrons
 - D) Air pressure

- 6) What does H70-T40 mean when describing a hydrogen filling station? 6) _____
 - 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

- 7) HCCI is a process that eliminates what parts or components in a gasoline engine? 7) _____
 - A) Fuel tank
 - B) Battery
 - C) Fuel injectors
 - D) Ignition system

- 8) How energy-efficient is a typical internal combustion engine? 8) _____
- A) 15-20%
 - B) 40-60%
 - C) 5-10%
 - D) None of these are correct
- 9) What are the by-products (emissions) from a fuel cell? 9) _____
- A) Water
 - B) CO₂
 - C) CO
 - D) Nonmethane hydrocarbon
- 10) Technician A says that hydrogen exists by itself in nature. Technician B says that hydrogen has better specific energy than fossil fuels. Which technician is correct? 10) _____
- A) Technician A only
 - B) Technician B only
 - C) Both technicians
 - D) Neither technician

Answer Key

Testname: HYBRID4_18B

1) D

Page Ref: 298

2) C

Page Ref: 289

3) B

Page Ref: 290

4) D

Page Ref: 300-301

5) C

Page Ref: 295

6) B

Page Ref: 292

7) D

Page Ref: 300

8) A

Page Ref: 289

9) A

Page Ref: 289

10) B

Page Ref: 289