

Name:

Date:

Class:

## **Lesson 7.2: Biofuels**

### **Know and Understand**

*Answer the following questions using the information provided in this lesson.*

1. Why did Henry Ford phase out the use of biofuels in his Model T cars? (7.2.1)

- A. Petroleum was a less expensive fuel.
- B. Biofuels had not been invented by the time Ford invented the Model T.
- C. Model T cars were being phased out of production.
- D. Biofuels added too much weight to the car.

Answer:

2. Which of the following crops is not used in ethanol production? (7.2.1)

- A. Sugar cane
- B. Tomatoes
- C. Sugar beets
- D. Switchgrass

Answer:

3. *True or False?* Fermentation is not used in the wet-mill process for ethanol production. (7.2.1)

Answer:

4. Which of the following statements about biodiesel is true? (7.2.1)

- A. Biodiesels cause no air pollution.
- B. Traditional diesel causes less pollution than biodiesel.
- C. Biodiesels are 80% diesel and 20% biogas.
- D. Biodiesel has a lower viscosity than traditional diesel.

Answer:

5. Which of the following is derived from vegetable oils? (7.2.1)

- A. Biodiesel
- B. Ethanol
- C. Methanol
- D. Omnidiesel

Answer:

6. Which of the following is not a common agricultural source for biodiesel production? (7.2.1)

- A. Turfgrass
- B. Canola oil
- C. Animal fats
- D. Soybean oil

Answer:

7. Why is canola oil a good biofuel source? (7.2.1)

- A. It is easily mixed with animal fats and oils.
- B. It is easily extracted from used cooking oils.
- C. It flows easily in cold weather.
- D. The United States ranks fifth in canola oil production.

Answer:

8. Which of the following is true about using animal fats as a source of biodiesel? (7.2.1)

- A. They mix well with regular gasoline.
- B. Most livestock animal fat is not usable any other way.
- C. It is the most widely produced biofuel in the world.
- D. Some biodiesel made from animal fats becomes cloudy in cold temperatures.

Answer:

9. *True or False?* Depending on the feedstock and production process, the combustion of biofuels may emit even more GHGs than some fossil fuels on an energy-equivalent basis. (7.2.2)

Answer:

10. *True or False?* Biodiesels are nontoxic and biodegradable. (7.2.3)

Answer:

11. *True or False?* Biodiesel production is rapidly advancing, producing more than 1.8 billion gallons in the United States. (7.2.4)

Answer: