

## Automotive Engines 10th

### Quiz 11A

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

1. Technician A says that the use of premium high-octane gasoline in an engine designed to use regular-grade gasoline will increase engine power. Technician B says that flexible fuel vehicles are designed to operate on gasoline or gasoline-ethanol blends up to 85% ethanol. Which technician is correct? 1. \_\_\_\_\_
  - A) Technician A only
  - B) Technician B only
  - C) Both technicians A and B
  - D) Neither technician A nor B
  
2. Technician A says that gasoline is a complex blend of hydrocarbons. Technician B says that gasoline is blended for seasonal usage to achieve the correct volatility for easy starting and maximum fuel economy. Which technician is correct? 2. \_\_\_\_\_
  - A) Technician A only
  - B) Technician B only
  - C) Both technicians A and B
  - D) Neither technician A nor B
  
3. A flex-fuel vehicle can be identified by \_\_\_\_\_. 3. \_\_\_\_\_
  - A) emblems on the side, front, and/or rear of the vehicle
  - B) VECI
  - C) VIN
  - D) Any of the above
  
4. Most regular-grade gasoline today, using the  $(R + M) \div 2$  rating method, is which of these octane ratings? 4. \_\_\_\_\_
  - A) 87
  - B) 89
  - C) 91
  - D) 85
  
5. What personal protective equipment should be used when working around alternative fuels? 5. \_\_\_\_\_
  - A) Safety glasses
  - B) Long-sleeve shirt and long pants
  - C) Protective gloves
  - D) All of the above
  
6. Which method of blending ethanol with gasoline is the most accurate? 6. \_\_\_\_\_
  - A) In-line
  - B) Sequential
  - C) Splash
  - D) All of the above

7. Technician A says that spark knock, ping, and detonation are different names for abnormal combustion. Technician B says that any abnormal combustion raises the temperature and pressure inside the combustion chamber and can cause severe engine damage. Which technician is correct? 7. \_\_\_\_\_
- A) Technician A only
  - B) Technician B only
  - C) Both technicians A and B
  - D) Neither technician A nor B
8. Using E85 can result in which of these? 8. \_\_\_\_\_
- A) Increased exhaust emissions
  - B) Reduced fuel economy
  - C) Increased fuel economy
  - D) Decreased exhaust emissions
9. Technician A says that in going to high altitudes, engines produce lower power. Technician B says that most engine control systems can compensate the air-fuel mixture for changes in altitude. Which technician is correct? 9. \_\_\_\_\_
- A) Technician A
  - B) Technician B
  - C) Both technicians
  - D) Neither technician
10. What can be used to measure the alcohol content in gasoline? 10. \_\_\_\_\_
- A) Graduated cylinder
  - B) Electronic tester
  - C) Scan tool
  - D) Either A or B

## Answer Key

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3. D  
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4. A  
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6. A  
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