

Name _____

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

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

- 2) P-series alternative fuel that is patented by Princeton University and is a non-petroleum-based fuel suitable for use in _____ vehicles or any vehicle designed to operate on E-85 (85% ethanol, 15% gasoline). 2) _____
 - A) Flexible fueled
 - B) Controlled Fueled
 - C) Ethanol
 - D) Methanol

- 3) Which method of blending ethanol with gasoline is the most accurate? 3) _____
 - A) In-line
 - B) Sequential
 - C) Splash
 - D) All of the above

- 4) E85 means that the fuel is made from _____. 4) _____
 - A) 85% gasoline and 15% ethanol
 - B) 85% ethanol and 15% gasoline
 - C) Ethanol that has 15% water
 - D) Pure ethyl alcohol

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

- 6) Which of these procedures used to convert coal-to-liquid fuel, creates a synthetic crude, called syncrude, which is then refined to produce gasoline or diesel fuel? 6) _____
 - A) Indirect method
 - B) Direct method
 - C) Cracking
 - D) Distillation

- 7) Vapor lock can occur under which of these conditions? 7) _____
- A) High heat near fuel lines
 - B) RVP too high
 - C) During both A and B
 - D) During neither A nor B
- 8) A flex-fuel vehicle can be identified by _____. 8) _____
- A) Emblems on the side, front, and/or rear of the vehicle
 - B) VECI
 - C) VIN
 - D) Any of the above
- 9) When refueling a CNG vehicle, why is it recommended that the tank be filled to a high pressure? 9) _____
- A) The range of the vehicle is increased.
 - B) The cost of the fuel is lower.
 - C) Less of the fuel is lost due to evaporation.
 - D) Both A and C
- 10) 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? 10) _____
- A) Technician A
 - B) Technician B
 - C) Both technicians
 - D) Neither technician

Answer Key

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- 1) C
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- 2) A
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- 3) A
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- 4) B
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- 5) C
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- 6) B
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- 7) C
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- 8) D
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- 9) A
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- 10) C
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