

Name _____

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

- 1) Exxon Mobil has developed a process for converting methanol (methyl alcohol) into gasoline in a process called _____. 1) _____
 - A) methanol-to-gasoline (MTG)
 - B) ethanol-to-gasoline (ETG)
 - C) MTBE (methyl tertiary butyl ether)
 - D) TBA (tertiary butyl alcohol)

- 2) What color is diesel fuel dyed if it is for off-road use only? 2) _____
 - A) Red
 - B) Green
 - C) Blue
 - D) Yellow

- 3) 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). 3) _____
 - A) Flexible fueled
 - B) Controlled Fueled
 - C) Ethanol
 - D) Methanol

- 4) Technician A says that gasoline should always be purchased from a busy station, and the vehicle's tank should not be overfilled. Technician B says that oxygenated fuels contain extra oxygen to help increase CO exhaust emissions. Which technician is correct? 4) _____
 - A) Technician A
 - B) Technician B
 - C) Both technicians
 - D) Neither technician

- 5) What can be used to measure the alcohol content in gasoline? 5) _____
 - A) Graduated cylinder
 - B) Electronic tester
 - C) Scan tool
 - D) Either A or B

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

- 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
 - B) Technician B
 - C) Both technicians A and B
 - D) Neither technician A nor B
- 8) Most regular-grade gasoline today, using the $(R + M) \div 2$ rating method, is which of these octane ratings? 8) _____
- A) 87
 - B) 89
 - C) 91
 - D) 85
- 9) Abnormal combustion (also called detonation or spark knock) increases both the temperature and _____ inside the combustion chamber? 9) _____
- A) Carbon
 - B) Hydrogen
 - C) Pressure
 - D) EGR
- 10) Using E85 can result in which of these? 10) _____
- A) Increased exhaust emissions
 - B) Reduced fuel economy
 - C) Increased fuel economy
 - D) Decreased exhaust emissions

Answer Key

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1) A

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2) A

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3) A

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4) A

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5) D

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6) B

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7) C

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8) A

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9) C

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10) B

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