

Name _____

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

- 1) Pump octane is rated by _____. 1) _____
A) motor octane only
B) research octane only
C) an average of these two methods
D) none of these
- 2) What can be used to measure the alcohol content in gasoline? 2) _____
A) Graduated cylinder
B) Electronic Tester
C) Scan tool
D) Either A or B
- 3) A gasoline with a high driveability index (DI) is _____. 3) _____
A) less volatile than gasoline with a lower DI
B) more volatile than gasoline with a lower DI
C) DI does not describe volatility
D) none of these
- 4) Which of these symptoms may be caused by excessive ethanol in the fuel? 4) _____
A) High idle speed
B) Poor AC performance
C) Late transmission shifting
D) Rough idle or stall
- 5) Technician A says that volatility is a measure of how easily gasoline evaporates. Technician B says that Reid Vapor Pressure (RVP) is one way to express how volatile a gasoline mixture is. Which technician is correct? 5) _____
A) Technician A only
B) Technician B only
C) Both technicians
D) Neither technician
- 6) 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? 6) _____
A) Technician A only
B) Technician B only
C) Both technicians
D) Neither technician

- 7) Technician A says that the research octane number is higher than the motor octane number. Technician B says that the octane rating posted on fuel pumps is an average of the two ratings. Which technician is correct? 7) _____
- A) Technician A only
 - B) Technician B only
 - C) Both technicians
 - D) Neither technician
- 8) 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? 8) _____
- A) Technician A only
 - B) Technician B only
 - C) Both technicians
 - D) Neither technician
- 9) To avoid problems with the variation of gasoline, all government testing uses _____ as a fuel during testing procedures. 9) _____
- A) MBTE (methyl tertiary butyl ether)
 - B) indolene
 - C) xylene
 - D) TBA (tertiary butyl alcohol)
- 10) Reformulated gasoline contains at least _____ percent oxygen by weight. 10) _____
- A) 2
 - B) 10
 - C) 1
 - D) zero