

Name _____

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

- 1) Most premium gasolines have an octane rating of _____. 1) _____
A) 74
B) 87
C) 104
D) 91
- 2) Technician A says that using lower octane fuel in vehicles designed for premium fuel will cause serious engine damage. Technician B says that some octane boosters will cause discoloration of the porcelain on spark plugs. Which technician is correct? 2) _____
A) Technician A only
B) Technician B only
C) Both technicians
D) Neither technician
- 3) A gasoline with a high drivability index 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) 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? 4) _____
A) Technician A only
B) Technician B only
C) Both technicians
D) Neither technician
- 5) If regular-grade gasoline is used in an engine designed for premium gasoline, what might result? 5) _____
A) Reduced engine power
B) Reduced fuel economy
C) Both A and B
D) Neither A nor B
- 6) Technician A says that hydrocracking is used mostly in the manufacture of diesel fuel. Technician B says that thermal cracking produces a high-quality gasoline suitable for today's engines. Which technician is correct? 6) _____
A) Technician A only
B) Technician B only
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 only
 - B) Technician B only
 - C) Both technicians
 - D) Neither technician
- 8) Technician A says that gasoline is a pure chemical with a simple molecular structure. Technician B says that gasoline is a complex mixture of various hydrocarbons. Which technician is correct? 8) _____
- A) Technician A only
 - B) Technician B only
 - C) Both technicians
 - D) Neither technician
- 9) One gallon of gasoline weighs _____ one gallon of water. 9) _____
- A) Less than
 - B) More than
 - C) The same as
 - D) Twice as much as
- 10) Gasoline is refined from crude oil using a process called _____. 10) _____
- A) Refining
 - B) Cracking
 - C) Fungible
 - D) Petroleum

Answer Key

Testname: HYBRID4_4B

1) D

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2) B

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3) A

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4) C

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5) C

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6) A

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7) C

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8) B

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9) A

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10) A

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