

Name \_\_\_\_\_

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

- 1) Avoid topping off the fuel tank because \_\_\_\_\_. 1) \_\_\_\_\_
  - A) It can saturate the charcoal canister
  - B) The extra fuel simply spills onto the ground
  - C) The extra fuel increases vehicle weight and reduces performance
  - D) The extra fuel goes into the expansion area of the tank and is not used by the engine
  
- 2) To avoid problems with the variation of gasoline, all government testing uses \_\_\_\_\_ as a fuel 2) \_\_\_\_\_ during testing procedures.
  - A) MBTE (methyl tertiary butyl ether)
  - B) Indolene
  - C) Xylene
  - D) TBA (tertiary butyl alcohol)
  
- 3) What term describes the process of lowering the boiling point of a hydrocarbon by exposing it to 3) \_\_\_\_\_ different environmental treatments such as hydrogen enriched catalysts or high temperatures?
  - A) Cracking
  - B) Distillation
  - C) Reforming
  - D) None of these
  
- 4) Technician A says that gasoline is a pure chemical with a simple molecular structure. Technician 4) \_\_\_\_\_ B says that gasoline is a complex mixture of various hydrocarbons. Which technician is correct?
  - A) Technician A only
  - B) Technician B only
  - C) Both technicians
  - D) Neither technician
  
- 5) Pump octane is rated by \_\_\_\_\_. 5) \_\_\_\_\_
  - A) The research octane number
  - B) The motor octane number
  - C) The average of the research and the motor octane numbers
  - D) The research octane number minus the motor octane number
  
- 6) A vehicle designed for premium grade fuel has been filled with regular grade gasoline. What 6) \_\_\_\_\_ engine sensor allows the PCM to compensate for the lower octane of the regular gasoline?
  - A) Fuel sensor
  - B) Octane sensor
  - C) Crank sensor
  - D) Knock sensor

- 7) A gasoline with a high drivability index is \_\_\_\_\_. 7) \_\_\_\_\_  
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
- 8) Winter blend gasoline \_\_\_\_\_. 8) \_\_\_\_\_  
A) Vaporizes more easily than summer blend gasoline  
B) Has a higher RVP  
C) Can cause engine drivability problems if used during warm weather  
D) All of the above
- 9) Overfilling the fuel tank can cause which of the following? 9) \_\_\_\_\_  
A) Damaged charcoal canister  
B) Over-rich mixture  
C) Failed emission test  
D) Any of these is possible
- 10) 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? 10) \_\_\_\_\_  
A) Technician A only  
B) Technician B only  
C) Both technicians  
D) Neither technician

## Answer Key

Testname: HYBRID4\_4A

1) A

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2) B

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3) A

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4) B

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5) C

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6) D

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7) A

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8) D

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9) D

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10) C

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