

Name \_\_\_\_\_

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

- 1) A vehicle is undergoing a SHED test. What is being measured? 1) \_\_\_\_\_
  - A) Evaporative emissions
  - B) Tail pipe gasses
  - C) Lighting pollution
  - D) Zero emissions
  
- 2) Oxides of nitrogen results from a combination of nitrogen and \_\_\_\_\_. 2) \_\_\_\_\_
  - A) Hydrogen
  - B) Carbon
  - C) Oxygen
  - D) Nitrogen
  
- 3) OBD-II equipped vehicles are required to turn on the malfunction indicator lamp if the system has detected an exhaust emission level that is \_\_\_\_\_ the FTP limit. 3) \_\_\_\_\_
  - A) 1.5 times or higher than
  - B) The same as
  - C) 1.5 times less than
  - D) None of these
  
- 4) Which EPA bin number indicates a cleaner vehicle? 4) \_\_\_\_\_
  - A) 3
  - B) 8
  - C) 10
  - D) 11
  
- 5) Which of these vehicle types would be classified as a ZEV vehicle? 5) \_\_\_\_\_
  - A) A hybrid vehicle
  - B) An electric vehicle
  - C) A fuel cell powered vehicle
  - D) Either B or C
  
- 6) Which gas indicates efficiency? (The higher the level of this gas, the more efficient the engine is operating.) 6) \_\_\_\_\_
  - A) HC
  - B) CO
  - C) CO<sub>2</sub>
  - D) O<sub>2</sub>
  
- 7) Burning or watering eyes indicates excessive \_\_\_\_\_ in the vehicle exhaust. 7) \_\_\_\_\_
  - A) Air
  - B) Oxides of nitrogen
  - C) Vacuum
  - D) Hydrocarbons

8) After the following exhaust emissions were measured, how was the engine operating? 8) \_\_\_\_\_

HC = 766 PPM    CO<sub>2</sub> = 8.2%    CO = 4.6%    O<sub>2</sub> = 0.1%

- A) Too rich
- B) Too lean

9) NO<sub>x</sub> readings at idle should be less than \_\_\_\_\_. 9) \_\_\_\_\_

- A) 100 ppm
- B) 10 ppm
- C) 1 ppm
- D) None of these is correct

10) Which gas is generally considered to be the lean indicator? (The higher the level of this gas, the leaner the air-fuel mixture.) 10) \_\_\_\_\_

- A) HC
- B) CO
- C) CO<sub>2</sub>
- D) O<sub>2</sub>

## Answer Key

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