

Name: _____

Date: _____

1. What is the typical voltage output of a zirconia oxygen sensor when the exhaust stream is lean?
 - A. Relatively high (close to 1 volt)
 - B. About in the middle of the voltage range
 - C. Relatively low (close to 0 volt)
 - D. Either A or B, depending on atmospheric pressure

2. What does the PCM use the input from the oxygen sensor(s) for?
 - A. Shifting the automatic transmission
 - B. Controlling fuel injector pulse width
 - C. Determining the condition of the catalytic converter
 - D. Both B and C

3. If the post-catalytic converter oxygen sensor voltage is not going above 800 mV but instead is staying at a low voltage level, what is the most likely cause?
 - A. Normal catalytic converter operation
 - B. The catalytic converter is not working
 - C. The catalytic converter is clogged
 - D. The PCM has failed

4. A wide-band oxygen sensor can detect which of the following?
 - A. The ability to detect exhaust air–fuel ratio from as rich as 10:1 to as lean as 23:1 in some cases
 - B. Cold start activity within as little as 10 seconds
 - C. Helps meet the national low emission vehicle (NLEV), ultra-low emission vehicle (ULEV), and the super ultra-low emission vehicle (SULEV)
 - D. All of the above

5. A dual cell wide-band oxygen sensor uses _____.
 - A. Two internal chambers
 - B. An air reference chamber
 - C. A diffusion chamber
 - D. All of the above

6. What is used to test a dual cell wide-band oxygen sensor?
 - A. Scan tool
 - B. Digital meter
 - C. Either A or B
 - D. Neither A nor B

7. A single cell wide-band oxygen sensor uses how many wires?
 - A. One
 - B. Two
 - C. Three
 - D. Four

8. A wide-band oxygen sensor is capable of detecting the air–fuel mixture in the exhaust from _____ (rich) to _____ (lean).

- A. 10:1; 23:1
- B. 12:1; 15:1
- C. 13:1; 16.7:1
- D. 8:1; 18:1

9. A wide-band oxygen sensor needs to be heated to what operating temperature?

- A. 1,400°F (760°C)
- B. 600°F (315°C)
- C. 800°F (427°C)
- D. 2,000°F (1,093°C)

10. A P0133 DTC is being discussed. Technician A says that a defective heater circuit could be the cause. Technician B says that a contaminated sensor could be the cause. Which technician is correct?

- A. Technician A only
- B. Technician B only
- C. Both Technicians A and B
- D. Neither Technician A nor B

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Chapter 73

Multiple Choice Quiz A

Answer Key

1. C

2. D

3. B

4. D

5. D

6. C

7. D

8. A

9. A

10. C