Automotive Technology 6th Edition Quiz 78B

Name_____

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

is 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) A wide band oxygen sensor heater can draw how much current (amperes)?	2)
		A) 0.8 to 2.0 Å	
B) 2 to 4 A			
C) 6 to 8 A			
D) 8 to 10 A			
3) Technician A says that an oxygen sensor can have one, two, three, four, or more wires,	3)		
depending on the style and design. Technician B says that if the exhaust has little oxygen, the	-,		
voltage of the oxygen sensor will be close to 1 volt (1000 mV) and close to zero if there is high			
oxygen content in the exhaust. Who is right?			
A) Technician A only			
B) Technician B only			
C) Both technicians			
D) Neither technician			
4) A low O2S voltage could be due to a	4)		
A) rich exhaust			
B) lean exhaust			
C) defective spark plug wire			
D) both B and C			
5) The oxygen sensor signal is used by the PCM to the air-fuel mixture.	5)		
A) dampen			
B) fine-tune			
C) add air to			
D) add fuel to			
6) Technician A says that a wide-band oxygen sensor, also called a lean air-fuel (LAF) sensor, can	6)		
detect air-fuel ratios from as rich as 10:1 to as lean as 23:1. Technician B says that the oxygen	- /		
sensor signal determines fuel trim which is used to tailor the air-fuel mixture for the catalytic			
converter. Which technician is correct?			
A) Technician A only			
B) Technician B only			

D) Neither technician

 7) 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 D) Neither technician 	7)
 8) A high O2S voltage could be due to a A) rich exhaust B) lean exhaust C) defective spark plug wire D) both A and C 	8)
 9) Technician A says that an oxygen sensor produces a voltage output signal based on the oxygen content of the exhaust stream. Technician B says that if the exhaust has little oxygen the voltage of the oxygen sensor will be close to 0 volts. Who is right? A) Technician A only B) Technician B only C) Both technicians D) Neither technician 	9)
10) What does the post, or downstream, oxygen sensor (HO2S) measure?A) Amount of H2O behind the catalytic converter	10)

- B) Amount of oxygen behind the catalytic converterC) Amount of H2O in front of the catalytic converterD) Amount of oxygen in front of the catalytic converter

Answer Key Testname: AT6_78B

- 1) C Page Ref: 903 2) D Page Ref: 906 3) C Page Ref: 904-905 4) D Page Ref: 906, 909 5) B Page Ref: 906 6) C Page Ref: 907, 911 7) C Page Ref: 917 8) A Page Ref: 904 9) A
 - Page Ref: 903
- 10) B
 - Page Ref: 906