Chapter 78 - Oxygen Sensors Quiz 78A
Name
MULTIPLE CHOICE. Choose the one alternative that best completes th

LTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the ques	stion.
 A P0131 DTC is being discussed. Technician A says that an exhaust leak upstream of HO2S (bank 1) oxygen sensor could be the cause. Technician B says that an extremely rich air-fuel mixture could be the cause. Who is right? A) Technician A only B) Technician B only C) Both technicians D) Neither technician 	1)
 2) On a poorly running engine, the wide band oxygen sensor can be quickly checked by A) jumping the connector with a flashlight battery B) jumping the connector with a jumper wire C) disconnecting the sensor connector D) disconnecting the vehicle battery 	2)
3) When the air/fuel ratio is expressed as lambda, a lambda number of less than 1 indicates a(n) exhaust. A) rich B) lean C) excessively cold D) excessively hot	3)
 4) 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 	4)
5) Where is sensor 1, bank 1 located on a V-type engine? A) On the same bank where number 1 cylinder is located B) Before the catalytic converter C) On the bank opposite cylinder number 1 D) Both A and B	5)

6) With the vehicle in closed loop, the following post converter HO2S scope pattern activity is seen. What does this indicate?	6)
VOLT 1.25 1	
A) A good converter B) A bad converter C) A lazy converter D) None of these	
7) When testing an oxygen sensor using a digital storage oscilloscope (DSO), how quickly should	7)
the voltage change when either propane is added to the intake stream or when a vacuum leak is created? A) 1-3 seconds B) Less than 100 ms C) 100-200 ms D) 450-550 ms	
8) A high O2S voltage could be due to a	8)
A) rich exhaustB) lean exhaustC) defective spark plug wireD) both A and C	
9) An oxygen sensor is being tested using a digital storage oscilloscope (DSO). A good oxygen	9)
sensor should display how many switches per second? A) 1-5 B) 5-10 C) 10-15 D) 15-20	
0) In some hybrid electric vehicles, the wide band oxygen sensor can cause the PCM to enter closed	10)
loop A) as soon as the engine (ICE) starts B) within 10 seconds of engine (ICE) start-up C) by the time the vehicle reaches 60 mph D) within 2 minutes	

Answer Key

Testname: AT6_78A

- 1) A Page Ref: 917
- 2) C Page Ref: 915
- 3) A Page Ref: 915
- 4) C Page Ref: 917
- 5) D Page Ref: 906
- 6) B Page Ref: 912
- 7) B Page Ref: 910
- 8) A Page Ref: 904
- 9) A Page Ref: 910
- 10) A Page Ref: 913