IPLE CHOICE. Choose the one alternative that best completes the statement or answers the quest	ion.
1) A low O ₂ S voltage could be due to a	1) _
A) rich exhaust	
B) lean exhaust	
C) defective spark plug wire	
D) Both B and C	
2) A wide band oxygen sensor needs to be heated to what operating temperature?	2) _
A) 600°F (315°C)	
B) 800°F (427°C)	
C) 1,400°F (760°C)	
D) 2,000°F (1,093°C)	
3) What does the post, or downstream, oxygen sensor (HO ₂ S) measure?	3) _
A) Amount of H ₂ O behind the catalytic converter	
B) Amount of oxygen behind the catalytic converter	
C) Amount of H ₂ O in front of the catalytic converter	
D) Amount of oxygen in front of the catalytic converter	
4) A wide band oxygen sensor heater can draw how much current (amperes)?	4)
A) 0.8 to 2.0 A	´ -
B) 2 to 4 A	
C) 6 to 8 A	
D) 8 to 10 A	
5) On a poorly running engine the wide band oxygen sensor can be quickly checked by	5)
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	
6) The voltage output of a zirconia oxygen sensor when the exhaust stream is lean (excess oxygen)	6) _
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	

A) Generic scan tool

sensor.

- B) Factory scan tool
- C) HO₂S disconnect bypass tool
- D) Vacuum hose

8) In some hybrid electric vehicles, the wide band oxygen sensor can cause the PCM to enter closed	8)
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	
9) Technician A says that an oxygen sensor produces a voltage output signal based on the oxygen	9)
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. Which technician is correct?	
A) Technician A only	
B) Technician B only	
C) Both technicians	
D) Neither technician	
10) The two internal chambers of a dual cell wide band oxygen sensor include and	10)
·	
A) Single; dual	
B) Nernst; Pump	
C) Air reference; diffusion	

D) Inside; outside

Answer Key

Testname: AEEP8_35B

- 1) D
 - Page Ref: 479-480
- 2) C
- Page Ref: 480
- 3) B
 - Page Ref: 486
- 4) D
 - Page Ref: 480
- 5) C
 - Page Ref: 493
- 6) C
 - Page Ref: 478
- 7) B
 - Page Ref: 491
- 8) A
- Page Ref: 488
- 9) A
 - Page Ref: 478
- 10) C
 - Page Ref: 489