Automotive Technology 6th Edition Chapter 88 - Catalytic Converters Quiz 88A		
Name		
MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.		
<ol> <li>Two technicians are discussing catalytic converters. Technician A says that the exhaust should have a 14.7:1 air-fuel ratio for the best efficiency. Technician B says that the air-fuel mixture must be leaner than 14.7:1 for best performance from a three-way catalytic converter. Which technician is correct?         <ul> <li>A) Technician A only</li> <li>B) Technician B only</li> <li>C) Both technicians</li> <li>D) Neither technician</li> </ul> </li> </ol>	1)	
<ul><li>2) Some vehicles have a "mini converter." Where is this component located?</li><li>A) Attached directly to the exhaust manifold</li><li>B) Downstream of the main catalytic converter</li><li>C) Just upstream of the muffler</li><li>D) None of these</li></ul>	2)	
3) The addition of cerium to catalytic converters provided what benefit?  A) Reduction of NOx  B) Stores oxygen to help with the oxidation process  C) Purification of NOx  D) Name of these	3)	

D) Note of these	
4) What is applied to the ceramic substrate to make the surface porous?	4)
A) Honeycomb filler	
B) Washcoat	
C) Aluminum	
D) Cerium	
5) What term describes a catalytic converter as it reaches its effective temperature?	5)
A) Light off	
B) Initiation	
C) Consumption	
D) None of these	
6) To prevent catalytic converter damage, do not crank a flooded engine longer than	6)
seconds.	
A) 40	
B) 15	
C) 10	
D) 60	

7) A P0422 (catalytic converter efficiency failure) is set. What is a possible cause?	7)
A) Engine mechanical fault	·
B) Exhaust leak	
C) Fuel contamination	
D) Any of these	
8) Which exhaust gas reading indicates a good catalytic converter?	8)
A) O2 is zero	
B) CO is zero	
C) Both A and B	
D) Neither A nor B	
9) Technician A says that a converter that rattles when tapped with a mallet should be replaced.	9)
Technician B says that the root cause of the converter failure should be diagnosed and repaired	
before a replacement converter is installed. Which technician is correct?	
A) Technician A only	
B) Technician B only	
C) Both technicians	
D) Neither technician	
10) When observing O2S waveforms on a DSO on an OBD-II vehicle, which O2 sensor should have	10)
more oscillations in its O2S waveform?	
A) Upstream	
B) Downstream	
C) They will be equal	
D) None of these	

## Answer Key

## Testname: AT6\_88A

- 1) A Page Ref: 1011
- 2) A Page Ref: 1011
- 3) B Page Ref: 1011
- 4) B Page Ref: 1010
- 5) A Page Ref: 1011
- 6) A Page Ref: 1013
- 7) D Page Ref: 1015
- 8) B Page Ref: 1015
- 9) C Page Ref: 1013, 1015
- 10) A Page Ref: 1012