## Automotive Engines 10th

## Quiz 28B

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

<ol> <li>What sensors are used by the PCM to determine the best position of the camshafts for maximum power and lowest possible exhaust emissions?         <ul> <li>A) Engine speed (RPM)</li> <li>B) Crankshaft position (CKP) sensor</li> <li>C) Camshaft position (CMP) sensor</li> <li>D) All of the above</li> </ul> </li> </ol>	1.	
<ul> <li>2. Which diagnostic trouble code (DTC) may be set if there is a problem with the bank 1 intake cam position?</li> <li>A) P0300</li> <li>B) P0420</li> <li>C) P0011 or P0012</li> <li>D) P0021 or P0022</li> </ul>	2.	
<ul> <li>3. A cylinder deactivation system uses to operate the system.</li> <li>A) magnetic induction</li> <li>B) oil pressure</li> <li>C) roller pumps</li> <li>D) None of these</li> </ul>	3.	
<ul> <li>4. How is the camshaft actuator controlled?</li> <li>A) Only when conditions are right</li> <li>B) Pulse-width-modulated (PWM) signal</li> <li>C) Spring-loaded to the correct position based on engine speed</li> <li>D) Vacuum-controlled valve</li> </ul>	4.	
<ul> <li>5. To reduce oxides of nitrogen (NOx) exhaust emissions, which camshaft is varied?</li> <li>A) Exhaust camshaft only</li> <li>B) Intake cam only</li> <li>C) Both the intake and exhaust camshaft</li> <li>D) The exhaust camshaft is advanced and the intake camshaft is advanced</li> </ul>	5.	
<ul> <li>6. Which of these would the driver notice if there is a problem with the VVT system?</li> <li>A) Transmission won't shift</li> <li>B) Poor engine performance</li> <li>C) MIL is lit</li> <li>D) Gas odors</li> </ul>	6.	
<ul> <li>7. A vane phaser uses to return it to the home position.</li> <li>A) a helix</li> <li>B) an electric coil</li> <li>C) oil pressure</li> </ul>	7.	

D) a spring

<ul> <li>8. Which one of these conditions will disable the variable displacement system?</li> <li>A) system voltage at 14 volts</li> <li>B) engine speed 2500 rpm</li> <li>C) low manifold vacuum</li> <li>D) oil temperature at 180° F</li> </ul>	8
<ul> <li>9. When a variable displacement engine disable cylinders the are also disabled.</li> <li>A) spark plugs</li> <li>B) fuel injectors</li> <li>C) intake valves</li> <li>D) throttle plates</li> </ul>	9
<ul> <li>10. On a vehicle with cylinder deactivation, the valves are kept closed by deactivating the</li> <li>A) valve lifter</li> <li>B) cam lobe</li> <li>C) valve stem</li> <li>D) valve spring</li> </ul>	10

Answer Key Testname: ENGINES 10 28B

- 1. D
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- 2. C Page Ref: 403
- 3. B
- Page Ref: 405
- 4. B
  - Page Ref: 402
- 5. A
  - Page Ref: 398
- 6. A
  - Page Ref: 403
- 7. D
  - Page Ref: 400
- 8. C
  - Page Ref: 405
- 9. B
  - Page Ref: 405
- 10. A
  - Page Ref: 405