

Name _____

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

- 1) Active fuel management on GM vehicles was initially called _____. 1) _____
 - A) Displacement on Demand
 - B) Fuel economy enhancement
 - C) Variable cylinder operation
 - D) None of these

- 2) The use of variable valve timing allows the elimination of the _____ on some engines. 2) _____
 - A) Exhaust valves
 - B) EGR valve
 - C) PCV control valve
 - D) TAC snorkel valve

- 3) To reduce oxides of nitrogen (NO_x) exhaust emissions, which camshaft is varied? 3) _____
 - A) Exhaust camshaft only
 - B) Intake camshaft only
 - C) Both the intake and exhaust camshaft
 - D) The exhaust camshaft is advanced and the intake camshaft is advanced

- 4) To increase engine performance, which camshaft is varied? 4) _____
 - A) Exhaust camshaft only
 - B) Intake camshaft only
 - C) Both the intake and exhaust camshaft
 - D) The exhaust camshaft is advanced and the intake camshaft is advanced

- 5) How quickly can the rocker arms be switched from the low-speed camshaft profile to the high-speed camshaft profile on a Honda equipped with a VTEC system? 5) _____
 - A) 50 milliseconds
 - B) 100 milliseconds
 - C) 250 milliseconds
 - D) 500 milliseconds

- 6) What is the commanded pulse width of the camshaft phaser that results in the desired position? 6) _____
 - A) 0%
 - B) 25%
 - C) 50%
 - D) 100%

- 7) How is the camshaft actuator controlled? 7) _____
 - A) On only when conditions are right
 - B) Pulse width modulated (PWM) signal
 - C) Spring loaded to the correct position based on engine speed
 - D) Vacuum controlled valve

- 8) Technician A says the 4.2 L Trailblazer engine has variable valve timing which changes the point at which the intake valves open and close. 8) _____
A) True
B) False
- 9) Variable valve timing is used to _____. 9) _____
A) Reduce exhaust emissions
B) Increase engine performance
C) Reduce engine wear
D) Both A and B
- 10) On many variable displacement engines the cylinder deactivation is done by use of _____. 10) _____
A) A two stage hydraulic lifter
B) Cam shifting
C) Spark retard
D) None of these

Answer Key

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- 1) A
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- 3) A
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- 4) B
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- 5) B
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- 6) C
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- 9) D
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- 10) A
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