

Name _____

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

- 1) Many factory installed superchargers are equipped with a _____ that allows intake air to flow directly into the intake manifold bypassing the supercharger. 1) _____
 - A) wastegate
 - B) throttle control valve
 - C) bypass valve
 - D) control valve

- 2) When air is pumped into the cylinder, the combustion chamber receives an increase of air pressure known as _____ and is measured in pounds per square inch (psi), atmospheres (ATM), or bar. 2) _____
 - A) density
 - B) boost
 - C) horsepower
 - D) waste

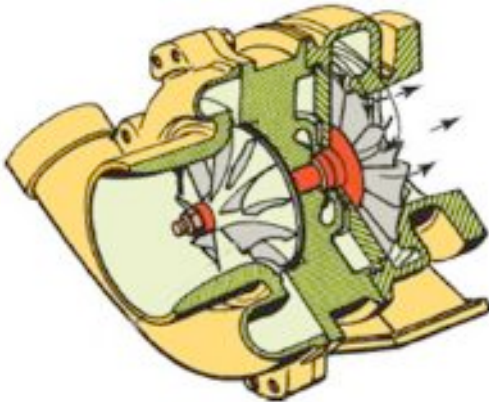
- 3) Technician A says that a stuck open wastegate can cause the engine to burn oil. Technician B says that a clogged PCV system can cause the engine to burn oil. Who is right? 3) _____
 - A) Technician A only
 - B) Technician B only
 - C) Both technicians
 - D) Neither technician

- 4) Which type of relief valve used on a turbocharged engine is noisy? 4) _____
 - A) Bypass valve
 - B) Blow Off Valve (BOV)
 - C) Dump valve
 - D) Both B and C

- 5) Two types of superchargers include _____. 5) _____
 - A) rotary and reciprocating
 - B) roots-type and centrifugal
 - C) double and single acting
 - D) turbine and piston

- 6) An engine designed to use nitrous oxide injection should have which of these features? 6) _____
 - A) Forged pistons
 - B) Forged connecting rods
 - C) High strength or forged crankshaft
 - D) All of these

- 7) All of these are advantages of supercharging an engine, EXCEPT _____. 7) _____
- A) increases the air-fuel charge density
 - B) allows the engine to run on lower pressures
 - C) pumped air pushes the remaining exhaust from the combustion
 - D) lowers the temperature of the cylinder head, pistons, and valves
- 8) Boost pressure is generally measured in _____. 8) _____
- A) inch Hg
 - B) PSI
 - C) inch H₂O
 - D) inch pounds
- 9) Technician A says that a bypass valve is used to control the boost pressure on most factory installed superchargers. Technician B says that an intercooler is used on many turbocharged and some supercharged engines to reduce the temperature of air entering the engine for increased power. Who is right? 9) _____
- A) Technician A only
 - B) Technician B only
 - C) Both technicians
 - D) Neither technician
- 10) Identify this component. 10) _____



- A) Centrifugal supercharger
- B) Water pump
- C) Turbocharger
- D) Wastegate

Answer Key

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1) C

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2) B

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3) B

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4) D

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5) B

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6) D

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7) B

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8) B

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9) C

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10) C

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