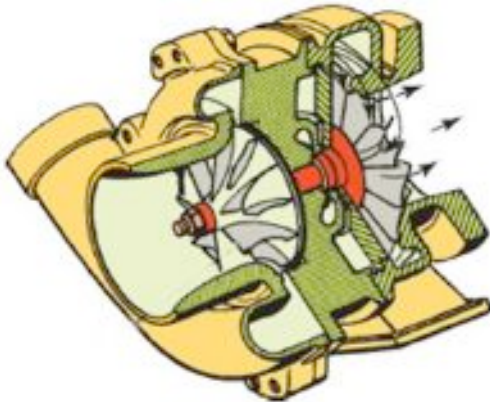


Name _____

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

Testname: AT6_25A

1) C

Page Ref: 248

2) B

Page Ref: 246

3) B

Page Ref: 251

4) D

Page Ref: 253

5) B

Page Ref: 248

6) D

Page Ref: 255

7) B

Page Ref: 247

8) B

Page Ref: 246

9) C

Page Ref: 248, 251

10) C

Page Ref: 250