## Automotive Engines 10th

## Quiz 20A MULTIPLE

<ol> <li>What service operation is <i>most</i> important on engines equipped with a turning</li> </ol>	rbocharger? 1.
A) Replacing the air filter regularly	
B) Replacing the fuel filter regularly	
C) Regular oil changes	
D) Regular exhaust system maintenance	
2. The types of superchargers include	2.
A) Rotary and reciprocating	
B) Roots-type and centrifugal	
C) Double and single acting	
D) Turbine and piston	
3. What is the purpose an intercooler?	3.
A) To reduce the temperature of the air entering engine	
B) To cool the turbocharger	
C) To cool the engine oil on a turbocharged engine	
D) To cool the exhaust before it enters the turbocharger	
4. Technician A says that a wastegate is used on most turbocharger systems	s to limit and control 4.
boost pressures. Technician B says that a relief valve is also used to keep	the speed of the turbine
wheel from speeding up during engine deceleration. Which technician is	s correct?
A) Technician A only	
B) Technician B only	
C) Both technicians A and B	
D) Neither technician A nor B	
5. Boost pressure is generally measured in	5.
A) inch Hg	
B) PSI	
C) inch H2O	
D) inch pounds	
6. Which type of relief valve used on a turbocharged engine is noisy?	6.
A) Bypass valve	
B) Blow Off Valve (BOV)	
C) Dump valve	
D) Both B and C	
7. Which of these is defined as the mass or weight of a substance in a given	a mount of space? 7.
A) Volumetric efficiency	
B) Density	
C) Mass D) Energy	

D) Energy

8. The delay between acceleration and turbo boost is called \_\_\_\_\_.

A) boost

B) turbo lag

C) waste gate delay

D) blowout valve delay

- 9. Technician A says that a turbocharger uses the normally wasted heat energy of the exhaust to turn an impeller at high speed. Technician B says that there is only one type of supercharger, the roots–type. Which technician is correct?
  - A) Technician A only
  - B) Technician B only

A) Technician A onlyB) Technician B only

C) Both technicians A and B D) Neither technician A nor B

- C) Both technicians A and B
- D) Neither technician A nor B
- 10. 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. Which technician is correct?

10. \_\_\_\_\_

8.

9. \_\_\_\_\_

Answer Key Testname: ENGINES 10 20A

- 1. C Page Ref: 280
- 2. B
  - Page Ref: 277
- 3. A
  - Page Ref: 280
- 4. A
  - Page Ref: 281
- 5. B
  - Page Ref: 275
- 6. D
  - Page Ref: 281
- 7. B
  - Page Ref: 274
- 8. B

Page Ref: 280

9. A

Page Ref: 277-278

10. C

Page Ref: 277; 280