Automotive Technology 6th Edition Chapter 25 - Turbocharging and Supercharging Quiz 25B			
Name			
MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.			
 All of these are advantages of supercharging an engine, EXCEPT 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 	1)		
2) Boost pressure is generally measured in A) inch Hg B) PSI C) inch H ₂ O D) inch pounds	2)		
 3) Which valve is used on a factory supercharger to limit boost? A) A bypass valve B) A wastegate C) A blow-off valve D) An air valve 	3)		
 4) The term "volumetric efficiency" refers to the ability of an engine to A) create emissions B) create heat C) pull in air D) distribute air evenly 	4)		
5) 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. A) density B) boost C) horsepower D) waste	5)		

6) Technician A says that a turbocharger uses the normally wasted heat energy of the exhaust to

roots-type. Who is right?
A) Technician A only
B) Technician B only
C) Both technicians
D) Neither technician

turn an impeller at high speed. Technician B says that there is only one type of supercharger, the

6) _____

7) What is the purpose of an intercooler?	7)
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	
8) Identify this component.	8)
A) Centrifugal supercharger	
B) Water pump	
C) Turbocharger	
D) Wastegate	
9) Nitrous oxide injection adds allowing the engine to burn more fuel. A) NOx	9)
B) oxygen	
C) HC	
D) CO ₂	
10) How are most turbochargers lubricated?	10)
A) By engine oil under pressure through lines from the engine	10)
B) By an internal oil reservoir	
C) By greased bearings	
D) No lubrication is needed because the incoming air cools the turbocharger.	
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Answer Key

Testname: AT6_25B

1) B

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2) B

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3) A

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4) C

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5) B

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6) A

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7) A

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8) C

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9) B

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10) A

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