Automotive Heating and Air Conditioning, 9th Edition

Quiz 3B

E	
1. The compressor in an A/C system is needed to	1.
A) keep the refrigerant circulating	_
B) make the gas hotter than ambient air	
C) increase the gas pressure	
D) All of these	
2. In an A/C system, the refrigerant changes state from a in the evaporator.	2
A) liquid to a gas	
B) gas to a liquid	
C) Both A and B	
D) Neither A nor B	
3. Compressing a vapor	3
A) increases the pressure and decreases the temperature	_
B) decreases the pressure and increases the temperature	
C) decreases the pressure and decreases the temperature	
D) increases the pressure and increases the temperature	
A) warm B) cool C) cold D) hot	
5. Evaporator icing can be controlled by	5.
A) increasing compressor RPM	_
B) warming the orifice tube	
C) reducing compressor displacement	
D) Any of these	
6. An accumulator is very similar to a(n)	6
A) receiver-drier	
B) evaporator	
C) condenser	
D) orifice tube	
7. Pressures are controlled in an orifice tube (OT) system by	7
A) using a variable valve	
B) cycling an electromagnetic compressor clutch on and off as needed	
C) using a variable displacement compressor	
D) Either B or C	

8. The refrigerant enters the evaporator as a	8.	
A) low-pressure mist		
B) low-pressure liquid		
C) high-pressure gas		
D) high-pressure liquid		
9. What does the term "superheat" mean?	9.	
A) The amount of heat added to a liquid.		
B) The heat outside the veheicle.		
C) Heat added to a vapor.		
D) None of these		
10. A/An is a variable valve that changes the size of the valve opening in response to the	10.	
cooling load of the evaporator.		
A) orifice tube		
B) compressor		
C) thermal expansion valve (TXV)		
D) receiver-drier		

Answer Key

Testname: AHAC9_3B

1. D

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2. A

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3. D

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4. D

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5. C

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6. A

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7. D

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8. A

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9. C

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10. C

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