Automotive Engines 10th

Quiz 13A

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

1. A 5 ribbed serpentine belt should be tensioned at about	1.	
A) 75 to 100 lbs.		
B) 45 to 60 lbs.		
C) 150 lbs. D) None of these		
D) None of these		
2. Technician A says that the radiator should always be inspected for leaks and proper flow before	2.	
installing a rebuilt engine. Technician B says that overheating during slow city driving can be		
caused by a defective electric cooling fan. Which technician is correct?		
A) Technician A only		
B) Technician B only C) Both technicians A and B		
D) Neither technician A nor B		
D) Neither technician Mior b		
3. What can be done to prevent air from getting trapped in the cooling system when the coolant is replaced?	3.	
A) Pour the coolant into the radiator slowly.		
B) Use a coolant exchange machine that draws a vacuum on the system.		
C) Open the air bleeder valves while adding coolant.		
D) Either B or C		
4. Which of these is the right procedure to use when refilling an empty cooling system?	4.	
A) Determine capacity; fill with 50/50 coolant/water or pre-mixed coolant		
B) Fill completely with antifreeze with a $50/50$ mix in the overflow bottle C) Fill block and one half of the radiator with 100% pure antifreeze and fill rest of with water		
D) Fill radiator with antifreeze, start engine, drain the radiator, and refill with a 50/50		
mixture of antifreeze and water		
5. The water pump uses which of these reactionary forces actions to circulate the coolant?	5.	
A) Magnetic force		
B) Gravitational force		
C) Centrifugal force		
D) Centripetal force		
6. The upper radiator hose collapses when the engine cools. What is the most likely cause?	6.	
A) A defective upper radiator hose		
B) The spring is missing from the upper radiator hose which is used to keep it from		
collapsing		
C) A defective thermostat		
D) A defective pressure cap		

7.	Technician A says that cooling fans are designed to draw air through the radiator to aid in the heat transfer process. Technician B says that drawing the heat from the coolant transfers this heat to the outside air through the radiator. Which technician is correct? A) Technician A only B) Technician B only C) Both technicians A and B D) Neither technician A nor B	7. ₋	
8.	In this drawing of a radiator cap, what is occurring within the cooling system	8	
	A) The system is cooling down B) The system is overheating C) Coolant is returning to the radiator D) Both A and C	0	
9.	A customer complains that the heater works sometimes, but sometimes only cold air comes out while driving. Technician A says that the water pump is defective. Technician B says that the cooling system could be low on coolant. Which technician is correct? A) Technician A only B) Technician B only C) Both technicians A and B D) Neither technician A nor B	9	
10.	Technician A says that the automotive water pump is a positive displacement–type pump. Technician B says that the coolant mix should be a 50/50 split between antifreeze and water. Which technician is correct? A) Technician A only B) Technician B only C) Both technicians A and B D) Neither technician A nor B	10.	

Answer Key

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- 1. A
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- 2. C
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- 3. D
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- 4. A
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- 5. C
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- 6. D
 - Page Ref: 155
- 7. C
 - Page Ref: 159
- 8. D
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- 9. B
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- 10. B
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