

Automotive Engines 10th

Quiz 13B

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

1. Heat transfer is improved from the coolant to the air when the _____. 1. _____
 - A) temperature difference is great
 - B) temperature difference is small
 - C) coolant is 95% antifreeze
 - D) Both A and C

2. Technician A says that the radiator should always be inspected for leaks and proper flow before 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? 2. _____
 - A) Technician A only
 - B) Technician B only
 - C) Both technicians A and B
 - D) Neither technician A nor B

3. 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? 3. _____
 - A) Technician A only
 - B) Technician B only
 - C) Both technicians A and B
 - D) Neither technician A nor B

4. An automotive engine that running at too high of a temperature can have which of these problems? 4. _____
 - A) Excessive oil consumption
 - B) Poor cooling system circulation
 - C) High oxides of carbon
 - D) High thermal inefficiency

5. Which statement is TRUE about thermostats? 5. _____
 - A) The temperature marked on the thermostat is the temperature at which the thermostat should be fully open
 - B) Thermostats often cause overheating
 - C) The temperature marked on the thermostat is a temperature at which the thermostat should start to open.
 - D) Both A and B

6. What is the purpose of the lower air dam in the front of a vehicle? 6. _____
 - A) To help direct the air through the radiator
 - B) To direct the air to the automatic transmission
 - C) To improve the looks of the vehicle
 - D) Both B and C

7. What can be done to prevent air from getting trapped in the cooling system when the coolant is replaced? 7. _____

- 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

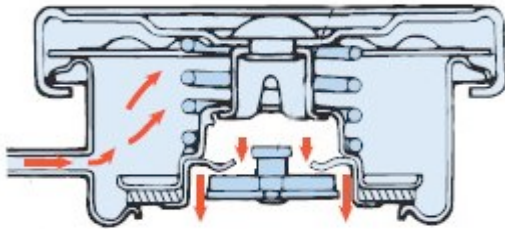
8. Water pumps _____. 8. _____

- A) only work at idle and low speeds and are disengaged at higher speeds
- B) use engine oil as a lubricant and coolant
- C) are driven by the engine crankshaft or camshaft
- D) disengage during freezing weather to prevent radiator failure

9. The use of a coolant recovery machine is helpful in preventing _____ from entering the cooling system. 9. _____

- A) air
- B) oil
- C) excessive vibrations
- D) hose residue

10. In this drawing of a radiator cap, what is occurring within the cooling system 10. _____



- A) The system is cooling down
- B) The system is overheating
- C) Coolant is returning to the radiator
- D) Both A and C

Answer Key

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1. A
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2. C
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3. B
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4. A
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5. C
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6. A
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7. D
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