

Automotive Heating and Air Conditioning, 9th Edition

Quiz 8B

NAME _____

1. DEX-COOL is _____. 1. _____
 - A) propylene glycol
 - B) ethylene glycol
 - C) silicate and phosphate free
 - D) Both B and C

2. DEX-COOL is what type of coolant? 2. _____
 - A) IAT
 - B) OAT
 - C) HOAT
 - D) PHOAT

3. Technician A says that galvanic activity is the result of a poor ground connection. Technician B says that electrolysis can occur with a poor ground connection. 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. All these are functions of coolant EXCEPT _____. 4. _____
 - A) corrosion inhibitor
 - B) rust inhibitor
 - C) cooling system lubricant
 - D) increases air flow across the radiator

5. A normal reading when testing coolant for galvanic activity is _____. 5. _____
 - A) less than 200 mV
 - B) at least .5 V
 - C) more than .5 V
 - D) 5 V or more

6. A voltmeter was used to check the coolant and a reading of 0.2 volt with the engine off was measured. A reading of 0.8 volt was measured with the engine running and all electrical accessories turned on. Technician A says that the coolant should be flushed to solve the galvanic activity. Technician B says that the ground wires and connections should be inspected and repaired to solve the electrolysis problem. Which technician is correct? 6. _____
 - A) Technician A only
 - B) Technician B only
 - C) Both technicians A and B
 - D) Neither technician A nor B

7. A chemical barrier is formed by the coolant that can be enhanced by changing to a different type of coolant. 7. _____
 - A) True
 - B) False

8. The pH of coolant is tested using a _____.

8. _____

- A) test strip
- B) hydrometer
- C) refractometer
- D) voltmeter

9. As the percentage of antifreeze in the coolant increases, _____.

9. _____

- A) the freeze point decreases (up to a point)
- B) the boiling point decreases
- C) the heat transfer increases
- D) All of the above occurs

10. Adding a chemical to make ethylene glycol bitter to the taste is called _____.

10. _____

- A) passivation
- B) embittered
- C) refractometer
- D) electrolysis

Answer Key

Testname: AHAC9_8B

1. D

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2. B

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3. B

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4. D

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5. A

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6. B

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7. B

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8. A

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9. A

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10. B

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