Automotive Technology 6th Edition
Quiz 20A

Name_____

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

1) Reusing old coolant is generally not approved by vehicle manufacturers, with the exception of _____. 1) _____
A) General Motors
B) Ford
C) Chrysler
D) Mercedes

2) Which of the following antifreeze/water mix has the lowest freeze point? 2) _____
A) Pure antifreeze
B) 50/50 mixture
C) Pure water
D) 60% antifreeze/40% water

3) Using 100% coolant in the cooling system improves the cooling capacity of the system. 3) _____
A) True
B) False

4) As the percentage of antifreeze in the coolant increases, _____. 4) _____
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.

5) Technician A says that OAT type coolant should be changed every 2 years. Technician B says that IAT type coolant should be changed every 2 years. Which technician is correct? 5) _____
A) Technician A only
B) Technician B only
C) Both technicians
D) Neither technician

6) What percentage of coolant is water? 6) _____
A) 80%
B) 50%
C) 30%
D) 10%

7) Some manufacturers recommend using premixed coolant only in their vehicles. 7) _____
A) True
B) False

8) A normal reading when testing coolant for galvanic activity is _____. 8) _____
A) less than 200 mV
B) at least .5 V
C) more than .5 V
D) 5 V or more

9) Technician A says that used coolant should never be recycled. Technician B says that coolant types that include DEX–COOL are ethylene glycol–based. Who is right? 9) _____
A) Technician A only
B) Technician B only
C) Both technicians
D) Neither technician

10) 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? 10) _____
A) Technician A only
B) Technician B only
C) Both technicians
D) Neither technician

Answer Key
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1) D
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2) D
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3) B
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4) A
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5) B
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6) B
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7) A
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8) A
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9) B
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10) B
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