

Name _____

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

- 1) In a dual compressor that uses both an ICE powered part and an electrical-power part, what percentage of the capacity is electrically powered? 1) _____
A) 85%
B) 55%
C) 35%
D) 15%

- 2) What coolant is used in a motor/electronics cooling system? 2) _____
A) Special electrically-insulated coolant
B) DEX-COOL
C) The same coolant that is used in the ICE cooling system
D) Either A or C, depending on the vehicle

- 3) What is used to help keep the passenger compartment warm during idle-stop (start-stop) operation? 3) _____
A) A larger than normal heater core
B) An auxiliary electric water pump
C) Operating the A/C in reverse to provide heating instead of cooling
D) Larger than usual water jackets in the ICE

- 4) Electrically powered A/C compressors should use what type of refrigerant oil? 4) _____
A) PAO
B) PAG
C) POE
D) Polyalkylene glycol

- 5) The HEV electric compressor operates at a voltage of up to _____ volts. 5) _____
A) 42
B) 230
C) 14.5
D) 12

- 6) A/C compressor oil is the same for both hybrid and non-hybrid A/C systems. 6) _____
A) True
B) False

- 7) Technician A says that HEV compressors may be both electrically and belt driven. Technician B says that scroll type A/C compressors contain rotating scrolls to pressurize the refrigerant. Which technician is correct? 7) _____
A) Technician A only
B) Technician B only
C) Both technicians
D) Neither technician

- 8) All of the air entering the passenger compartment must pass through the _____. 8) _____
- A) Evaporator
 - B) Condenser
 - C) Heater core
 - D) Radiator
- 9) What is the color of the plastic conduit used over high- voltage wiring to an electric A/C compressor? 9) _____
- A) Blue
 - B) Orange
 - C) Yellow
 - D) Red
- 10) Which of these components of a hybrid electrical vehicle does NOT need cooling? 10) _____
- A) Motor-generator
 - B) Inverter
 - C) High voltage cables
 - D) Transmission

Answer Key

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1) D

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2) C

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3) B

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4) C

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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) C

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