

Name \_\_\_\_\_

**SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.**

1) What are the three airflow sections in a typical HVAC system?

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2) Why is a feedback potentiometer used on an electric actuator?

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3) How does a dual-zone climate control system work?

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4) What is the purpose of the aspirator tube in the in-vehicle temperature sensor section?

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5) What are the sensors used in a typical automatic temperature control (ATC) system?

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## Answer Key

Testname: AAEE\_SHORT20

- 1) The three major airflow sections include the air inlet section, the plenum section and the air distribution section.  
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- 2) Feedback potentiometers are used to provide the controller with the actual position of the door or valve.  
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- 3) In a dual-zone climate control system, the ducts and airflow are split and two air mix doors are used, with each door being controlled by its own actuator.  
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- 4) The purpose of the aspirator tube is to create a low pressure area to draw air from the interior of the vehicle past the in-vehicle temperature sensor.  
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- 5) The sensors that are usually used include the outside air temperature (OAT), also called the ambient temperature sensor; in-vehicle temperature sensor; the discharge air temperature (DAT) sensor; evaporator temperature (EVT) sensor and the sun load sensor  
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