Name_____

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

1) What is the purpose and function of the ratio control motor?

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2) What controls the movement of the variator?

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3) What precautions should be taken when pressure testing a CVT transaxle?

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4) What are the types of belts used in a CVT?

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5) What is the advantage of a CVT compared to a regular six speed transmission

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1) A ratio control motor is a linear position motor that changes the position of the upper end of the pulley ratio link. Movement of the stepper motor or the floating sheave will move the ratio control valve to produce a ratio change.
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2) The movable face for each pulley is attached to a piston that has hydraulic control pressure applied to it. With no fluid pressure, the secondary pulley spring forces the floating side to a narrow, high- belt position, which in turn moves the primary pulley to a wide, low-belt position. This produces an underdrive that is always used as the vehicle starts moving. Continued fluid flow to the primary piston will change the ratio from an underdrive/reduction through 1:1 to an overdrive.
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3) The pressure can exceed 1,000 PSI (6,900 kPa) and a leak from the tester could cause personal injury. Always uses a high-pressure gauge and follow the vehicle manufacturer's recommended procedures.
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4) Vehicles that use a CVT transaxle, separated by type: either push-type (belt) or pull-type (chain).
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5) A CVT offers the following advantages over a planetary-gear automatic transmission.
   - Compact, very short
   - Lighter weight
   - Constant, stepless acceleration with engine staying at the RPM for maximum power
   - Efficient fuel use and emissions, cruise with engine staying at the RPM for maximum efficiency
   - Lower internal power loss

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