

Name \_\_\_\_\_

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

1) How is the General Motors parallel hybrid truck able to supply 110 volts AC to the auxiliary power outlet?

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2) How does the two-mode hybrid system work?

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3) How does the electro-hydraulic power steering (EHPS) work?

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4) What type of hybrid vehicle is the GM PHT truck, and what are its capabilities?

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5) How does the Belt Alternator Starter (BAS) system work?

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## Answer Key

Testname: HYBRID4\_SHORT16

- 1) The auxiliary power outlet (APO) system uses an inverter to change 42 volts DC to 110 volts AC.  
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- 2) The two-mode hybrid system uses two electric traction motors inside the transmission. This system is a full (strong) hybrid and it is capable of powering the vehicle from a stop using electric motor power alone.  
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- 3) The EHPS uses an electric motor powered hydraulic pump instead of a conventional engine-driven power steering pump to allow power-assisted steering during idle stop conditions.  
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- 4) The General Motors parallel hybrid truck (PHT) is a mild hybrid and is not capable of powering the vehicle using the electric motor alone.  
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- 5) The BAS system uses a large alternator/ starter combination that is capable of applying torque to the ICE crankshaft during periods of acceleration and starts the ICE, as well as charges the 32-volt battery during deceleration.  
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