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HORT	ANSWER. Write the word or phrase that best completes each statement or answers the question.
	1) What components are used in a typical evaporative emission control system?
2	2) How does the use of exhaust gas reduce NOX exhaust emission?
3	B) How does the DPFE sensor work?
4	1) What exhaust emissions do the PCV valve and SAI system control?
Ę	5) How does a catalytic converter reduce NOX to nitrogen and oxygen?
6	6) How does the computer monitor catalytic converter performance?
7	7) How does the computer control the purging of the vapor canister?

Answer Key

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1) The components in a typical evaporative emission control system include the carbon canister, purge valve, vent valve, and connecting hoses and connections.

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- 2) Recirculating a small percentage of the exhaust gases back into the intake, results in reduced combustion temperatures. The exhaust gases are chemically inert and do not enter into the combustion process.

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- 3) The DPFE (Delta Pressure Feedback EGR) works by measuring the pressure differential between two sides of a metered orifice to signal the PCM the amount of EGR needed.

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- 4) Both PCV and SAI systems are used to reduce HC and CO emissions. Page Ref: 501
- 5) As the exhaust gas passes through the catalyst, oxides of nitrogen (NOx) are chemically reduced (i.e., nitrogen and oxygen are separated) in the reduction section of the catalytic converter.

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- 6) The PCM monitors catalytic converters efficiency by checking the downstream oxygen sensor switch rates to the switch rate of the upstream oxygen sensor. If the switch rates are similar, the catalytic converter efficiency is low. Page Ref: 510
- 7) The computer controls the purging of the vapor canister by turning on and off the purge solenoid. Page Ref: 512