

Name _____

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

1) What is smog?

2) How does the use of exhaust gas reduce NOX exhaust emission?

3) How does a carbon (charcoal) canister help reduce emissions?

4) What exhaust emissions do the PCV valve and SAI system control?

5) How does a catalytic converter reduce NOX to nitrogen and oxygen?

Answer Key

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1) Smog is a word that combines smoke and fog and is ozone.

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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 carbon inside the canister attracts the gasoline fumes and holds them until the engine draws the fumes into the engine where they are burned.

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4) Both PCV and SAI systems are used to reduce HC and CO emissions.

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5) As the exhaust gas passes through the catalyst, oxides of nitrogen (NO_x) are chemically reduced (i.e., nitrogen and oxygen are separated) in the reduction section of the catalytic converter.

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