

Name _____

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

1) List those items that should be checked if a vehicle fails an exhaust test for excessive NOx emissions.

2) List the five exhaust gases and their maximum allowable readings for a fuel-injected vehicle equipped with a catalytic converter.

3) List two causes of a lean exhaust.

4) List two causes of a rich exhaust.

Answer Key

Testname: ENGINEPERF5_SHORT31

1) Items that should be checked if the vehicle fails an exhaust emission test for excessive NOX include: proper operating cooling system, proper flow through the EGR system, correct ignition timing, correct spark plug hot range, properly operating oxygen sensor, and engine operation without vacuum leaks.

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2) The five gases and their maximum allowable readings include:

HC = 30 to 50 PPM or less

CO = 0.3% to 0.5% or less

O₂ = 0% to 2%

CO₂ = 12% to 15%

NO_x = less than 100 PPM at idle and less than 1000 PPM at WOT

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3) Causes of a lean exhaust could include: a vacuum leak, lower-than-normal fuel pressure or volume, or a clogged injector(s).

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4) Causes of a rich exhaust could include: a defective fuel pressure regulator, a leaking injector(s), a stuck open pump valve, or a clogged air intake.

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