

Name(s) _____

Assignment #6

Fuel Control

Answers can be found at www.linnbenton.edu/auto/perform/fuel_info.html

- 1) What are the basic requirements for an engine to run
- 2) How can you quickly identify a lean air/fuel mixture as the cause for a no-start?
- 3) What is the most common cause of a lean fuel mixture not allowing the engine to start?
- 4) What can cause a no-start from a very lean fuel mixture, other than no gas in the fuel tank?
- 5) What is the most accurate way to test the fuel supply system?
- 6) What is dangerous about removing a fuel filter?
- 7) How can you prevent any accidental fuel spray from catching on fire?

- 8) What **MUST** you do after you have tested fuel pressure, or replaced the fuel filter, fuel pump, fuel injectors or any other fuel system component?

- 9) When you test fuel pressure and volume, it is best to run the fuel pump with the engine turned OFF. What is the easiest way to figure out how to manually turn on the fuel pump?

- 10) How does a fuel injector work?

- 11) Identify two ways to check a fuel injector to see if it is turning ON and OFF.

- 12) What will any air leak after the Mass Airflow (MAF) sensor do to the air/fuel ratio?

- 13) What is the best way to check for an air intake leak?

- 14) What can cause a rich air/fuel mixture? (list several possibilities)

- 15) Sometimes you will find air filters that are soaked with oil. What can cause this?

- 16) What happens to the fuel pressure if the vacuum line to the fuel pressure regulator has fallen off?

- 17) If only one fuel injector goes bad, why should you replace all injectors as a set?

- 18) What is the best way to check codes, and read the sensor data used by the PCM

- 19) What does PCM stand for?