

Name _____

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

- 1) OBD-II equipped vehicles are required to turn on the malfunction indicator lamp if the system has detected an exhaust emission level that is _____ the FTP limit. 1) _____
A) 1.5 times or higher than
B) the same as
C) 1.5 times less than
D) none of these
- 2) In addition to NO_x, HCs, and particulate matter (PM) emissions, what do European standards include? 2) _____
A) Standards for water vapor
B) Standards for nitrogen
C) Standards for CO₂
D) Standards for ambient pressure
- 3) All of the gasses are measured in percentages EXCEPT _____. 3) _____
A) HC
B) CO
C) CO₂
D) O₂
- 4) A dizzy feeling or a headache could indicate the presence of carbon monoxide (CO). 4) _____
A) True
B) False
- 5) After the following exhaust emissions were measured, how was the engine operating? 5) _____
HC = 766 PPM CO₂ = 8.2% CO = 4.6% O₂ = 0.1%
A) Too rich
B) Too lean
C) Normal running
D) Not enough information
- 6) Oxides of nitrogen results from a combination of nitrogen and _____. 6) _____
A) hydrogen
B) carbon
C) oxygen
D) nitrogen

- 7) Which gas indicates efficiency? (The higher the level of this gas, the more efficient the engine is operating.) 7) _____
A) HC
B) CO
C) CO₂
D) O₂
- 8) Which of the following is a measure of combustion efficiency? 8) _____
A) CO₂
B) O₂
C) CO
D) HC
- 9) HC and CO are high and CO₂ and O₂ are low. This could be caused by a _____. 9) _____
A) rich mixture
B) lean mixture
C) defective ignition component
D) clogged EGR passage
- 10) Technician A says that high HC emission levels are often caused by a fault in the ignition system. Technician B says that high CO₂ emissions are usually caused by a richer-than-normal air-fuel mixture. Which technician is correct? 10) _____
A) Technician A only
B) Technician B only
C) Both technicians
D) Neither technician