Automotive Technology 7th Edition
Chapter 80
Multiple Choice Quiz B

Name: _____ Date: _____

1. What diagnostic trouble code is described as "Exhaust gas recirculation flow problems"?
A. P0400
B. P0401
C. P0402
D. P0440

2. What could be a possible cause for a P0402 DTC (Exhaust gas recirculation flow excessive)?
A. Stuck-open EGR valve
B. Vacuum hose(s) misrouted
C. Electrical wiring shorted
D. All of the above

3. What is the main purpose of the Evaporative Emission Control System monitor's weak vacuum test?
A. To detect large leaks
B. To measure the system's efficiency
C. To check for proper vacuum levels
D. To ensure the integrity of the fuel tank

4. What happens if the purge solenoid becomes stuck in the open position?
A. The engine will not start
B. Gasoline fumes flow directly from the gas tank to the intake manifold
C. The vehicle will fail emissions testing
D. The fuel efficiency will increase

5. What is the effect of a hard-to-start condition after refueling?
A. Rich exhaust and likely black exhaust when starting the engine
B. Decreased engine performance
C. Increased hydrocarbon emissions
D. All of the above

6. What is the role of activated charcoal in the evaporative emission control system?
A. To cool the fuel vapors
B. To adsorb fuel vapor molecules
C. To filter particulates from the fuel
D. To increase fuel efficiency

7. What is the result of nitrogen gas pressurization in the EVAP system?
A. It cleans the fuel system
B. It detects leaks
C. It measures fuel quality
D. It pressurizes the fuel tank

8. What is the recommended fuel level for the EVAP monitor to run effectively?
A. Below 15%
B. Above 85%
C. Between 15% and 85%
D. At 100%

9. What is the consequence of NOx reacting with hydrocarbons in the presence of sunlight?
A. Formation of ozone or photochemical smog
B. Decrease in fuel efficiency
C. Increase in fuel consumption
D. Reduction in engine power

10. What is the significance of the EGR system in controlling emissions?
A. It reduces unburned hydrocarbons
B. It lowers the amount of nitrogen oxides formed during combustion
C. It increases the oxygen content in the exhaust
D. It filters particulates from the exhaust gases

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Answer Key

1. A

2. D

3. A

4. B

5. A

6. B

7. B

8. C

9. A

10. B