

Automotive Technology 7th Edition
Chapter 80
Multiple Choice Quiz A

Name: _____ Date: _____

1. What triggers a Diagnostic Trouble Code (DTC) P0442 in the evaporative emission control system?
 - A. A defective purge valve
 - B. A loose gas cap
 - C. A clogged vent valve
 - D. A faulty fuel pump

2. Which EVAP valve is most susceptible to rust and corrosion?
 - A. Purge valve
 - B. Vacuum control valve
 - C. Vent valve
 - D. Rollover check valve

3. What is the primary function of the Exhaust Gas Recirculation (EGR) system?
 - A. To increase fuel efficiency
 - B. To reduce oxides of nitrogen in emissions
 - C. To control fuel vapor evaporation
 - D. To enhance engine power

4. During an EGR system test using a vacuum gauge, what is the expected vacuum drop when the EGR is activated by a scan tool?
 - A. 1 to 2 in. Hg
 - B. 3 to 5 in. Hg
 - C. 6 to 8 in. Hg
 - D. 8 to 10 in. Hg

5. Which of the following is NOT a cause for a P0401 DTC (exhaust gas recirculation flow insufficient)?
 - A. A defective EGR valve
 - B. Clogged EGR passages
 - C. A faulty oxygen sensor
 - D. A malfunctioning PCM

6. What is the purpose of the fuel tank pressure (FTP) sensor in the evaporative emission control system?
 - A. To measure the pressure of the fuel in the tank
 - B. To detect leaks in the system
 - C. To regulate the fuel pump pressure
 - D. To monitor the fuel temperature

7. In the context of evaporative emission control, what does the term 'inert' refer to?
 - A. Non-reactive substances
 - B. Highly volatile compounds
 - C. Toxic gases
 - D. Oxygen-rich air

8. What is the main reason for using a smoke machine in evaporative system leak detection?
- A. To pressurize the system
 - B. To cool down the system components
 - C. To visually identify the leak location
 - D. To measure the size of the leak
9. Which component is added to the fuel system by OBD-II requirements for monitoring purge line pressure?
- A. Fuel evaporative canister purge line pressure sensor
 - B. Fuel tank pressure sensor
 - C. Evaporative system monitor
 - D. Leak detection pump
10. What is the typical range of exhaust gas percentage mixed with the intake charge in an EGR system?
- A. 1% to 3%
 - B. 6% to 10%
 - C. 15% to 20%
 - D. 25% to 30%

Automotive Technology 7th Edition

Chapter 80

Multiple Choice Quiz A

Answer Key

1. B

2. C

3. B

4. C

5. C

6. B

7. A

8. C

9. A

10. B