

Automotive Engines 10th

Quiz 18B

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

1. Two technicians are discussing clogged EGR passages. Technician A says clogged EGR passages can cause excessive NO_x exhaust emissions. Technician B says that clogged EGR passages can cause the engine to ping (spark knock or detonation). Which technician is correct? 1. _____
 - A) Technician A only
 - B) Technician B only
 - C) Both technicians A and B
 - D) Neither technician A nor B

2. Which of these substances used in vapor canisters can adsorb volatile organic compounds? 2. _____
 - A) Desiccant
 - B) Organic absorber
 - C) Pleated paper
 - D) Carbon

3. The PCV (positive crankcase ventilation) system helps to reduce which of these exhaust gases? 3. _____
 - A) HC
 - B) CO
 - C) NO_x
 - D) Both HC and CO

4. An EGR valve that is partially stuck open would *most likely* cause what condition? 4. _____
 - A) Rough idle / stalling
 - B) Excessive NO_x exhaust emissions
 - C) Pinging
 - D) Missing at highway speed

5. Which EVAP valve(s) is (are) normally closed? 5. _____
 - A) Canister purge valve
 - B) Canister vent valve
 - C) Both canister purge and canister vent valve
 - D) Neither canister purge nor canister vent valve

6. A vehicle has a stored DTC P0440 (evap system fault). The most common cause of this is _____ 6. _____
 - A) a bad spark plug
 - B) a clogged muffler
 - C) a loose gas cap
 - D) incorrect octane gasoline

7. Technician A says that if a PCV valve rattles, then it is okay and does not need to be replaced. Technician B says that if a PCV valve does not rattle, it should be replaced. Which technician is correct? 7. _____
 - A) Technician A only
 - B) Technician B only
 - C) Both technicians A and B
 - D) Neither technician A nor B

8. Technician A says that the secondary air injection (SAI) system forces air at low pressure into the exhaust to reduce CO (Carbon Monoxide) and HC (Hydrocarbon) exhaust emissions. Technician B says that exhaust check valves are used between the AIR pump and the exhaust manifold to prevent exhaust gases from flowing into, and causing damage to, the AIR pump and valves. Which technician is correct? 8. _____
- A) Technician A only
 - B) Technician B only
 - C) Both technicians A and B
 - D) Neither technician A nor B
9. Technician A says that as much as 50% of the air needed by the engine at idle speed flows through the PCV (positive crankcase ventilation) system. Technician B says that PCV tests include the rattle test, card test, snap-back test, and crankcase vacuum test. Which technician is correct? 9. _____
- A) Technician A only
 - B) Technician B only
 - C) Both technicians A and B
 - D) Neither technician A nor B
10. A P0401 DTC is being discussed. Technician A says that a stuck-closed EGR valve could be the cause. Technician B says that clogged EGR ports could be the cause. Which technician is correct? 10. _____
- A) Technician A only
 - B) Technician B only
 - C) Both technicians A and B
 - D) Neither technician A nor B

Answer Key

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1. C
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2. D
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3. D
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4. A
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5. A
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6. C
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7. B
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8. C
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9. B
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