

Name _____

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

- 1) The switching valves on the AIR pump have failed several times. Technician A says that a defective exhaust check valve could be the cause. Technician B says that a leaking exhaust system at the muffler could be the cause. Which technician is correct? 1) _____
 - A) Technician A only
 - B) Technician B only
 - C) Both technicians
 - D) Neither technician

- 2) An electric SAI pump is controlled by _____. 2) _____
 - A) a vacuum switch
 - B) the PCM
 - C) exhaust pressure
 - D) manifold vacuum

- 3) All engines are equipped with a PCV valve. 3) _____
 - A) True
 - B) False

- 4) Two technicians are discussing exhaust check valves used in SAI systems. Technician A says that they are used to prevent the output from the SAI pump from entering the intake manifold. Technician B says the check valves are used to keep the exhaust from entering the AIR pump. Which technician is correct? 4) _____
 - A) Technician A only
 - B) Technician B only
 - C) Both technicians
 - D) Neither technician

- 5) A P0410 DTC indicates a problem with _____. 5) _____
 - A) the SAI solenoid
 - B) MAF airflow
 - C) the idle control system
 - D) none of these

- 6) What term is used to describe combustion gasses leaking past cylinder rings? 6) _____
 - A) Blow by
 - B) Manifold pressure
 - C) Sludge
 - D) Crankcase build-up

- 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
 - D) Neither technician
- 8) The SAI system is used to reduce which exhaust emission? 8) _____
- A) HC
 - B) CO
 - C) NO_x
 - D) Both HC and CO
- 9) In what year did PCV system monitoring become mandatory? 9) _____
- A) 2004
 - B) 1996
 - C) 1988
 - D) 2000
- 10) How much of the air needed by the engine flows through the PCV system when the engine is at idle speed? 10) _____
- A) 1 to 3%
 - B) 5 to 10%
 - C) 10 to 20%
 - D) Up to 30%

Answer Key

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1) A

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2) B

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3) B

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4) B

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5) A

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6) A

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7) B

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8) D

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9) A

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10) D

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