

Name _____

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

- 1) Air filters can remove particles and dirt as small as _____. 1) _____
 - A) 5 to 10 microns
 - B) 10 to 25 microns
 - C) 30 to 40 microns
 - D) 40 to 50 microns

- 2) Why is the catalytic converter placed as close to the engine as possible? 2) _____
 - A) For easier access when working on the engine
 - B) So the heat can help the converter work most efficiently
 - C) To allow the exhaust pipes from the catalytic converter rearward to be as long as possible
 - D) To prevent the heat from the exhaust system moving upward toward the floor of the vehicle

- 3) The upper portion of a two part intake manifold is often called the _____. 3) _____
 - A) housing
 - B) lower part
 - C) plenum
 - D) vacuum chamber

- 4) Technician A says that a cracked exhaust manifold can affect engine operation. Technician B says that a leaking lower intake manifold gasket could cause a vacuum leak. Which technician is correct? 4) _____
 - A) Technician A only
 - B) Technician B only
 - C) Both technicians
 - D) Neither technician

- 5) Why are the EGR gases cooled before entering the engine on some engines? 5) _____
 - A) Cool exhaust gas is more effective at controlling NOx emissions
 - B) To help prevent the exhaust from slowing down
 - C) To prevent damage to the intake valves
 - D) To prevent heating the air-fuel mixture in the cylinder

- 6) A cracked exhaust manifold can cause false readings from which of these engine sensors? 6) _____
 - A) Oxygen sensor
 - B) Coolant temperature sensor
 - C) Intake air temperature sensor
 - D) Exhaust temperature sensor

- 7) The automotive engine uses about _____ gallons of air for every gallon of gasoline burned at an air-fuel ratio of 14.7 to 1. 7) _____
- A) 2000
 - B) 4000
 - C) 7000
 - D) 9000
- 8) All of these are main jobs of the air cleaner and filter parts, EXCEPT _____. 8) _____
- A) clean the air before it is mixed with fuel
 - B) silence the intake air noise
 - C) act as a flame arrester in case of a backfire
 - D) lower the intake air pressure
- 9) Which of the following is/are terms for a variable intake manifold? 9) _____
- A) Variable intake system (VIS)
 - B) Variable volume induction (VVI)
 - C) Dual-stage intake (DSI)
 - D) Any of the above
- 10) The intake manifold of a port fuel-injected engine does which of these? 10) _____
- A) Uses a heater to heat the intake air
 - B) Uses a leaner air-fuel mixture than TBI
 - C) Contains only fuel
 - D) Contains only air

Answer Key

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1) B

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2) B

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3) C

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4) C

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5) A

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6) A

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7) D

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8) D

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9) D

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10) D

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