

Name _____

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

- 1) Intake charge velocity has to be _____ to prevent fuel droplet separation. 1) _____
 - A) 25 feet per second
 - B) 50 feet per second
 - C) 100 feet per second
 - D) 300 feet per second

- 2) Exhaust gases exit the exhaust port into the exhaust manifold, then travel to the _____. 2) _____
 - A) Muffler
 - B) Catalytic converter
 - C) Tail pipe
 - D) Atmosphere

- 3) The air filter restriction indicator uses what to detect when it signals to replace the filter? 3) _____
 - A) Number of hours of engine operation
 - B) Number of miles of vehicle travel
 - C) The amount of light that can pass through the filter
 - D) The amount of restriction measured in inches of water

- 4) All of these are main jobs of the air cleaner and filter parts, EXCEPT _____. 4) _____
 - 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 temperature

- 5) Exhaust passages are included in some intake manifolds. Technician A says that the exhaust passages are used for exhaust gas recirculation (EGR) systems. Technician B says that the upper intake is often called the plenum. Which technician is correct? 5) _____
 - A) Technician A
 - B) Technician B
 - C) Both Technicians
 - D) Neither Technician

- 6) Why do many port fuel injected engines use long intake runners? 6) _____
 - A) To reduce exhaust emissions
 - B) To heat the incoming air
 - C) To increase high RPM power
 - D) To increase low RPM torque

- 7) A cracked exhaust manifold can cause false readings from which of these engine sensors? 7) _____
 - A) Oxygen sensor
 - B) Coolant temperature sensor
 - C) Intake air temperature sensor
 - D) Exhaust temperature sensor

- 8) The primary function of the muffler is to _____ the exhaust gases. 8) _____
- A) Silence
 - B) Cool
 - C) Trap
 - D) Clean
- 9) Why are the EGR gases cooled before entering the engine on some engines? 9) _____
- A) Cool exhaust gas is more effective at controlling NO_x 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
- 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) D

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4) D

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5) C

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6) D

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7) A

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8) A

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9) A

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10) D

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