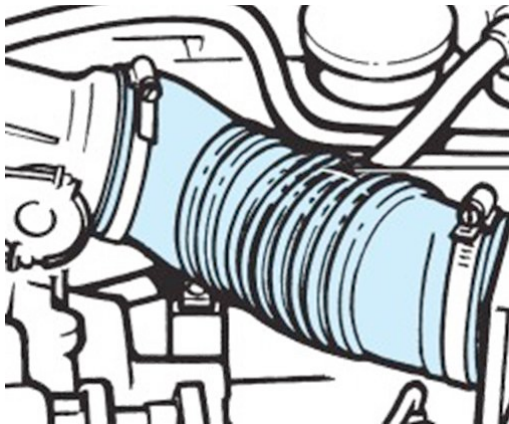


Name _____

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

- 1) A P0102 DTC is being discussed. Technician A says that a sensor circuit shorted-to-ground can be the cause. Technician B says that an open sensor voltage supply circuit could be the cause. Which technician is correct? 1) _____
- A) Technician A only
 - B) Technician B only
 - C) Both technicians
 - D) Neither technician

- 2) The component shown (shaded) has a crack or split in it. What would this cause? 2) _____



- A) Poor running in a forward gear but OK in reverse
 - B) Allow false air into the engine
 - C) Either A or B
 - D) Neither A nor B
- 3) If the MAF sensor fails, the PCM uses _____ to calculate fuel delivery needs. 3) _____
- A) MAP and throttle position
 - B) RPM and throttle position
 - C) throttle position and transmission RPM
 - D) RPM alone
- 4) Two technicians are diagnosing a poorly running engine. There are no diagnostic trouble codes. When the MAF sensor is unplugged, the engine runs better. Technician A says that this means the MAF is supplying incorrect air flow information to the PCM. Technician B says that this indicates the PCM is defective. Which technician is correct? 4) _____
- A) Technician A only
 - B) Technician B only
 - C) Both technicians
 - D) Neither technician

- 5) Which of the following components measures the volume and density of the incoming air? 5) _____
A) Oxygen Sensor
B) Throttle Position Sensor
C) Mass Airflow Sensor
D) Manifold Absolute Pressure Sensor
- 6) A fuel injection system that does not use a sensor to measure the amount (or mass) of air entering the engine is usually called a(n) _____ type of system. 6) _____
A) air vane controlled
B) speed density
C) mass air flow
D) hot wire
- 7) MAF sensor electrical connectors should be checked for all of these, EXCEPT _____. 7) _____
A) Corrosion
B) Terminals bent or pushed out of the plastic connector
C) Frayed wiring
D) Tight connectors
- 8) Technician A says that a MAF sensor actually measures the density and amount of air flowing into the engine, which results in accurate engine control. Technician B says that a hot wire MAF sensor uses the electronics in the sensor itself to heat a wire 70°C above the temperature of the air entering the engine. Which technician is correct? 8) _____
A) Technician A only
B) Technician B only
C) Both technicians
D) Neither technician
- 9) A P0103 DTC is being discussed. Technician A says that a sensor circuit shorted-to-ground can be the cause. Technician B says that a defective MAF sensor could be the cause. Which technician is correct? 9) _____
A) Technician A only
B) Technician B only
C) Both technicians
D) Neither technician
- 10) Dirt can affect all of these sensors, EXCEPT _____. 10) _____
A) Low frequency (older style) MAF
B) High frequency (new style) MAF
C) Hot wire MAF (mass air flow sensor)
D) Cold wire MAF (mass air flow sensor)

Answer Key

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1) C

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2) C

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3) A

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4) A

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5) C

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6) B

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7) D

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8) C

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9) B

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10) D

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