

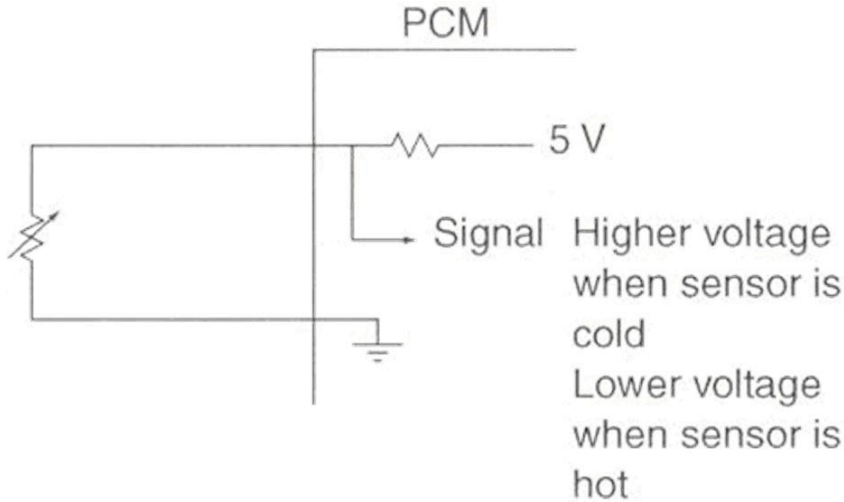
Name _____

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

- 1) Two technicians are discussing the IAT sensor. Technician A says that the IAT sensor is more important to the operation of the engine (higher authority) than the ECT sensor. Technician B says that the PCM will add fuel if the IAT indicates that the incoming air temperature is cold. 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) Technician A says that the ECT and IAT sensors can be tested visually, as well as by using a digital multimeter or a scan tool. Technician B says that the ECT sensor is a high-authority sensor at engine startup and is used for open-loop control, as well as idle speed. Which technician is correct? 2) _____
- A) Technician A only
 - B) Technician B only
 - C) Both technicians A and B
 - D) Neither technician A nor B
- 3) A corroded connector at the ECT could cause _____. 3) _____
- A) air-fuel mixture too rich
 - B) poor fuel economy
 - C) stored DTC
 - D) All of these
- 4) All of the following are approved methods for diagnosing a ECT (engine coolant temperature) sensor EXCEPT _____. 4) _____
- A) scan tool
 - B) digital multimeter (DMM)
 - C) observing resistance values at a specified temperature
 - D) substituting a variable resistor

5) In the below illustration what type of circuit is depicted?

5) _____



- A) Step-up transformer
- B) Negative temperature coefficient (NTC) thermistor
- C) Positive temperature coefficient (PTC) thermistor
- D) Oxygen (O₂S) sensor

6) Which of the following components provides the engine control computer with engine coolant temperature information?

6) _____

- A) TP sensor
- B) MAP sensor
- C) ECT sensor
- D) OP sensor

7) What happens to the voltage measured at the ECT sensor when the thermostat opens?

7) _____

- A) Increases slightly
- B) Increases about 1 volt
- C) Decreases slightly
- D) Decreases about 1 volt

8) When testing the ECT sensor with the connector disconnected, the technician should select what position on the DMM (digital multimeter)?

8) _____

- A) AC volts
- B) DC volts
- C) Ohms
- D) Amperes

9) The sensor that most determines fuel delivery when a fuel injected engine is first started is the _____.

9) _____

- A) O₂S
- B) ECT sensor
- C) engine MAP sensor
- D) IAT sensor

- 10) A DTC P0117 DTC is being discussed. Technician A says that the ECT sensor could be internally shorted to ground. Technician B says that the signal wire could be open. 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

Testname: AEEP8_31B

1) B

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2) C

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3) D

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4) D

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5) B

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6) C

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7) A

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8) C

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9) B

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10) A

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