Automotive Technology 6th Ec	lition
Quiz 77A	

Name_____

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

 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. Who is right? A) Technician A only B) Technician B only C) Both technicians D) Neither technician 	1)
 2) A vehicle runs fine when in reverse yet has a rough idle and stalling when put in drive. This could be caused by A) excessive fuel pressure B) incorrect idle speed C) a cracked air inlet hose D) a missing spark plug 	2)
 3) Which of the following components measures the volume and density of the incoming air? A) Oxygen Sensor B) Throttle Position Sensor C) Mass Air Flow Sensor D) Manifold Absolute Pressure Sensor 	3)
 4) The MAF sensor is used mostly to determine the amount of to deliver to the engine. A) vacuum correction B) idle air C) spark advance D) fuel 	4)
 5) 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 A) air vane controlled B) speed density C) mass air flow D) hot wire 	5)
 6) The MAF sensor on a General Motors 3800 V-6 is being tested for contamination. Technician says that the sensor should show over 100 grams per second on a scan tool display when the accelerator is depressed to WOT (wide open throttle) on a running engine. Technician B says that the output frequency should exceed 7000 Hz when the accelerator pedal is depressed to WOT on a running engine. Who is right? A) Technician A only B) Technician B only C) Both technicians 	6)

D) Neither technician

7)

7)	Technician A says that a MAF sensor is a high-authority sensor and is responsible for
	determining the fuel needs of the engine based on the measured amount of air entering the
	engine. Technician B says that a cold wire MAF sensor uses the electronics in the sensor itself to
	heat a wire 20°C below the temperature of the air entering the engine. Who is right?

A) Technician A only

- B) Technician B only
- C) Both technicians
- D) Neither technician

8) If the MAF sensor fails, the PCM uses ______ to calculate fuel delivery needs.

- A) MAP and throttle position
- B) RPM and throttle position
- C) throttle position and transmission RPM

- D) RPM alone
- 9) Which type of sensor uses a burn-off circuit?
 - A) Hot wire MAF sensor
 - B) Hot film MAF sensor
 - C) Vane type airflow sensor
 - D) Both A and B
- 10) Technician A says that a MAF sensor actually measures the density and amount of air flowing into the engine. Technician B says a that 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. Who is right?
 - A) Technician A only
 - B) Technician B only
 - C) Both technicians
 - D) Neither technician

9) _____

10) _____

Answer Key Testname: AT6_77A

> 1) C Page Ref: 901 2) C Page Ref: 900 3) C Page Ref: 897 4) D Page Ref: 898 5) B Page Ref: 897 6) C Page Ref: 900 7) A Page Ref: 897, 899 8) B Page Ref: 899 9) A

Page Ref: 898

10) C

Page Ref: 897