Automotive Electrical and Engine Performance, 8th Edition Quiz 34B	
Name	
MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the questi	ion.
 1) A P0100 DTC is being discussed. Technician A says that an open or short in mass air flow circuit could be the cause. Technician B says that a defective MAF sensor could be the cause. Which technician is correct? A) Technician A only B) Technician B only C) Both technicians D) Neither technician 	1)
2) Air that enters the engine without passing through the airflow sensor is called A) bypass air B) dirty air C) false air D) measured air	2)
 3) If the frequency output of a MAF is plotted on a graph along with engine RPM the resulting lines should be A) A straight line B) A parabola C) A sharp curve D) In opposite directions 	3)
 4) 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? A) Technician A only B) Technician B only C) Both technicians D) Neither technician 	4)
 5) The typical MAF reading on a scan tool with the engine at idle speed and normal operating temperature is A) 1-3 grams per second B) 3-7 grams per second C) 8-12 grams per second D) 15-24 grams per second 	5)
 6) 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? A) Technician A only B) Technician B only C) Both technicians D) Neither technician 	6)

7) MAF sensor electrical connectors should be checked for all of these, EXCEPT A) Corrosion B) Terminals bent or pushed out of the plastic connector C) Frayed wiring D) Tight connectors	7)
8) Two technicians are discussing Karman Vortex sensors. Technician A says that they contain a burn-off circuit to keep them clean. Technician B says that they contain a movable vane. Which technician is correct? A) Technician A only B) Technician B only C) Both technicians D) Neither technician	8)
9) 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? A) Technician A only B) Technician B only C) Both technicians D) Neither technician	9)
10) A MAF sensor on a General Motors 3800 V-6 is being tested for contamination. Technician A 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. Which technician is correct? A) Technician A only B) Technician B only C) Both technicians	10)

D) Neither technician

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) C
 - Page Ref: 470-471
- 5) B
 - Page Ref: 473
- 6) C
 - Page Ref: 474
- 7) D
 - Page Ref: 473
- 8) D
 - Page Ref: 471
- 9) A
 - Page Ref: 475
- 10) C
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