Name			

1) Which airflow sensor has a dampening chamber?	1)	
A) A vane airflow	ĺ	
B) A hot film MAF		
C) A hot wire MAF		
D) A Karman Vortex		
2) 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. Which technician is correct?		
A) Technician A only		
B) Technician B only		
C) Both technicians		
D) Neither technician		
3) Which of these can be used to measure the frequency (Hz) output of the sensor and compare the	3)	
reading with specifications?		
A) DMM (digital multimeter)		
B) Megohmmeter		
C) Logic Probe		
D) High impedance test light		
4) Which of the following components measures the volume and density of the incoming air?	4)	
A) O2S		
B) TP Sensor		
C) MAF Sensor D) MAP Sensor		
D) MAY Sensor		
5) The typical MAF reading on a scan tool with the engine at idle speed and normal operating	5)	
temperature is		
A) 1-3 grams per second		
B) 3–7 grams per second		
C) 8-12 grams per second D) 15-25 grams per second		
D) 13-23 grains per second		
6) Two technicians are discussing Karman Vortex sensors. Technician A says that they contain a	6)	
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		
D) Neimer technician		

7) 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			
8) If the frequency output of a MAF is plotted on a graph along with engine RPM the resulting	8)		
lines should be	,		
A) A straight line			
B) A parabola			
C) A sharp curve			
D) In opposite directions			
9) A P0102 DTC is being discussed. Technician A says that a sensor circuit shorted-to-ground can	9)		
be the cause. Technician B says that an open sensor voltage supply circuit could be the cause.	, <u> </u>		
Which technician is correct?			
A) Technician A only			
B) Technician B only			
C) Both technicians			
D) Neither technician			
0) Air that enters the engine without passing through the airflow sensor is called	10)		
A) Bypass air	, 		
B) Dirty air			
C) False air			
D) Measured air			

Answer Key

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- 1) A
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- 2) A
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- 3) A
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- 4) C
 - Page Ref: 364
- 5) B
 - Page Ref: 366
- 6) D
 - Page Ref: 365
- 7) A
 - Page Ref: 368
- 8) A
- Page Ref: 367
- 9) C
 - Page Ref: 369
- 10) C
 - Page Ref: 367