## **Lab 6 - Direct Reading Instruments**

**Due** Sep 27 at 7am **Points** 10 **Questions** 10 **Time Limit** None

## **Attempt History**

LATEST Attempt 1 35 minutes 10 out of 10		Attempt	Time	Score
	LATEST	Attempt 1	35 minutes	10 out of 10

(!) Correct answers are hidden.

Score for this quiz: **10** out of 10 Submitted Sep 26 at 12:44pm This attempt took 35 minutes.

Question 1	1 / 1 pts
Nearly all vapors generated from chemical liquids have a va	ipor density
greater than air	
less than air	
oneutrally buoyant with air	

Question 2	1 / 1 pts
If a combustible gas meter reads less than zero, what should assume about the concentration of flammable vapors in the environment?	d you
○ The concentration is <uel< td=""><td></td></uel<>	

The instrument needs calibration	
The concentration is >UEL	
Question 3	1 / 1 pts
When using a RAE Systems instrume calibrated with methane, you measure gasoline. If the reading on the instrum %LEL of gasoline in the air?	an atmosphere containing
O 8%	
6.5%	
0.96%	
3.25%	
12.25%	
Question 4	1 / 1 pts
Given the background oxygen concen concentration of a chemical in air is 8, he oxygen concentration to read on a	500 ppm, what would you expect

Insufficient data to calculate

- 4	.24		0/
- 1	-/4	$\cdot$	7/0

Question 5	1 / 1 pts
Exposing a gas senor to the gas it is designed to measure t sensor responds is know as a?	o see if the
O Drop Test	
Bump Test	
Calibration	
Poisoning	

Question 6	1 / 1 pts
Exposing a gas sensor to a known concentration of the gas designed to measure in order to set the span value is know?	
O Poisoning	
O Drop Test	
Field Calibration	
O Bump Test	

Question 7 1 / 1 pts

What term describes the phenomenon where an electrochemical sensor in a 4-gas meter responds to a chemical for which it is not designed to respond, and that material chemically bonds to the sensor reagent material causing a spurious response that may last for several hours after the meter is not longer in an environment with that chemical is know as?		
Poisoning		
O Toxic Shock Syndrome		
Cross Sensitivity		
Thermal runaway		
Question 8	1 / 1 pts	

Question 8	1 / 1 pts
If an LEL sensor calibrated with methane is reading 1.5% I measuring benzene vapors (CF 2.1), what is the actual corof benzene in ppm if the LEL of benzene is 2%?	
Not enough information to determine	
0.063	
© 630	
O 3.15	

Question 9 1 / 1 pts

All of the following are advantages of colorimetric tubes except:

They are inexpensive
O Do not require calibration
High precision readings
O Do not require batteries

Question 10	1 / 1 pts
When measuring the airborne concentration of Ethylbenzer PID equipped with a 10.6 eV lamp, the meter displays a valppm. Using the correction factor found in the Honeywell Te Note TN-106 - A guideline for PID instrument response, whactual concentration of Ethylbenzene in ppm?	ue of 126 chnical
○ 268	
O 46	
O 64	
59	
O 247	

Quiz Score: 10 out of 10