Flow Measurement - Instructional Survey

1. Describe the following as they apply to flow measurement:

Reynolds Number -

High Accuracy -

Applicable Range -

Ideal Flowmeter -

Cavitation -

2. Which is superior, flowmeter A which has an accuracy of ½ percent of full scale or flowmeter B which has an accuracy of 1percent of rate? Why?

3. How are the following flowmeters affected by density and viscosity?

	Density	*Viscosity*
Orifice Plate		
Vortex Shedder		
Magnetic Flowmeter		
Thermal Flowmeter		
Positive Displacement		
Mass Flowmeter		

4. List possible causes of the following symptoms.

Symptom	*Possible Causes*
Low flow measurement with control valve wide open	
Orifice Plate with bouncy analog signal	
Vortex Shedder - Max. flow confirmed with zero output Analog signal @ 0%	

5. What percentage of flowmeter users are knowledgeable of the compromises necessary for flowmeter selection?

6. What color is the sky?

7. List some advantages and disadvantages of a mass flowmeter as compared to the following:

	Advantages	*Disadvantages*
Orifice Plate		
Vortex Shedder		
Magnetic Flowmeter		
Thermal Flowmeter		
Positive Displacement		

8. A DC magnetic flowmeter can be powered by

A. 24 VDC
B. 120VAC
C. 240 VAC
D. All of the above
E. None of the above

9. Why would a user purchase a mass flowmeter over another flowmeter?

10. Why would a user purchase a flowmeter other than a mass flowmeter?

11. Which flowmeter does a user buy?

12. After answering the above, estimate the score for your answers using a scale of 0-100 percent. (No response = 0 percent)