## **Practice Test - Intro to Measurement**

## **Multiple Choice**

Identify the choice that best completes the statement or answers the question.

 1.		ples	of standardization of sizes and became common	
	practice early in the twentieth century. a. Mass production	c.	Planned obsolescence	
	b. Interchangeable parts	c. d.	Computed Tomography	
	0. Interchangeable parts	u.	Computed Tomography	
 2.	Although musket parts made in Eli Whitney's shop were interchangeable, they were not interchangeable with parts made by another contemporary gunmaker from the same drawings because the two gunsmiths had			
	a. Different foot rulers	c.	Different sized standard stock	
	b. Different ways to interpret the drawings	d.	Different types of machine tools	
 3.	Because all the commonly used metals are affet temperature of has been adopted for prec a. 100° C b. Absolute Zero	ision c.	-	
4	an annaiticiter mafana ta tha annai	11	unit of apple on dimensional input that the device con	
 4.	or sensitivity, refers to the smallest unit of scale or dimensional input that the device can detect or distinguish.			
	a. Resolution	c.	Stability	
	b. Linearity	c. d.	Repeatability	
	0. Encarty	u.	Repeatability	
 5. Precision measurements in three-dimensional Cartesian coordinate space can be made with				
	a. Dial calipers	c.	Coordinate measuring machines (CMM)	
	b. Micrometers	d.	Surface plates	
 6.			urate as it can be, you must calibrate it against a standard. or measurement standards in the United States? NIST SAE	
 7. An example of an internal primary standard often used is a:				
	a. Tolerance	c.	$\mathcal{O}$ $\langle \mathcal{O}$	
	b. Digital Readout	d.	Dial Indicator	
8.	Optical projection most often depicts the part's			
 0.	a. Profile	, <u> </u>	Interior details	
	b. Z axis		Perspective view	
 9.	Two components of different materials fit together perfectly when manufactured at 70°F. When they are put into service inside a cryogenic storage tank at -243°F, they do not fit. Which of the following material property did the designer not take into account?			
	a. Melting point	c.	Coefficient of thermal expansion	
	b. Boiling Point	d.	Solidus	

- \_\_\_\_\_ is the degree of consistency achieved when a measuring device is used by different readers to 10. inspect the same part or part dimension
  - Precision a.
  - b. Accuracy

- Repeatability c.
- Reproducibility d.



11.

The image above shows an inspection tool that is commonly used to see if a particular feature (such as a hole) is within certain tolerance limits. What is it called?

Go-No-Go gauge a.

Feeler gage c.

b. Radius gauge

- d. Screw pitch gage

