	IED Mid-Term Exam					
	Name:	Date:	Period:	Pts.	*0.333	
1.	. A(n) <u>Engineering</u> Notel document, in chronological order, al	i work that is as	s a book in which	h an engir ecific desig	neer will formally gn project. (1pt)	
2.	ideas without regard for feasibility, which occur from a group of people brought together for that specific purpose. (1pt)					
3.	What are the 4 rules for brainstorming 1- Rle on 2- (vantity > Quality 3- Include crozy ideas 4- No judgements					
4.	Place the design process steps in ord Concepts Generate Concepts Present the solution Define a Problem Develop a Solution Evaluate the solution Construct and Test a Prototype			·		
5.	A. hidden B. Object	<u></u>				
	C. Centr — D. Dimension			- →		
6. diel cute are arguably the most common and versatile of all the precision measuring tools used by engineers and manufacturers. (1pt)						
7	is the modification A. Invention B. Recreation C. Innovation D. Enhancement	n of an existing	product or process	s. (1pt)		
8.	. Which of the following is a recommer A. Engineering notebore edits may be made Sketches and other is Each page of an engulate, and the design D. A designer should be calculation so that a	ok entries should easily and at any important docung gineering noteboners signature. eave blank space	d be made in pencion time. nents should be kently ok should include the in the engineering	il so that co pt neatly in a title, pag g notebook	n a separate folder ge number, the	

9. If a single mate constraint is applied between two opposing surfaces in an assembly, how many degrees of freedom will remain between the two parts? (1pt) A. 1 B. 2 10. Use the list of requirements below to answer the question. - Must have a minimum of seven different parts once assembled - Must have the same scale as the lead car - Must be able to attach to the lead car Which label <u>best</u> describes the list of requirements? (1pt) A Design statement B. Design constraints D. Indicators 11. Which data set has an arithmetic mean of 38? (1pt) A. 24, 27, 35, 62 B. 28, 32, 36, 56 C. 31, 32, 38, 60 D. 19, 23, 45, 69 12. Jack and Jill are engineers developing a new electrical storage device. They have determined that the designs they wish to pursue require a technology that does not exist. Knowing this, what should Jack and Jill do next? (1pt) A. Proceed with CAD Modeling B. Construct and test a prototype Research and develop the needed technology
Create a decision matrix to narrow the concepts 13. When dimensioning a three-dimensional objects what two things must always be dimensioned? (1pt) (A) Size and Shape B. Size and Location C. Size and Contour D. Shape and Location 14. What dimension is still needed to define the rectangular groove below, assuming the groove is the important feature? (1pt) A. Location in X B.Location in Y C.Width in X D. Height in Y