## PRINCE OF SONGKLA UNIVERSITY

## THE FACULTY OF ENGINEERING

Midterm Examination Semester II	Academic Year 2004
Date: December 23,2004  Subject: 225-453 Value Engineering	Time: 09:00 – 12:00  Room: R300
1) Answer all questions.	
2) All books and materials are allowed.	
1. What is the major benefit of Value Engine	pering over Industrial Engineering
	(10 points)
2. What is innovations? How can we use them for	r VE applications?
	(10 points)
3. Analyse and list the basic functions of the iter	ns as the following:
3.1 a cup of tea.	
3.2 a compass	
3.3 chair	
3.4 copying paper	
3.5 a toothbrush	(50 points)
4. Assume the basic functions from 3.1,draw a	sketch design of innovation for a
cup of tea and copying paper and determine co	osts of functions.
	(20 points)
5. What is the mental block if the package of "Co	oke" has been changed from can
to bottle?	(10 points)
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