PRINCE OF SONGKLA UNIVERSITY

THE FACULTY OF ENGINEERING

Midterm Examination Semester II

Academic Year 2008

Date: December 24,2008

Time: 09:00-12:00

Subject: 225-465 Value Engineering and Cost Analysis Room: R300

ทุจริตในการสอบ โทษขั้นต่ำคือ ปรับตกในรายวิชาที่ทุจริต และพักการเรียน 1 ภาคการศึกษา

Instructions:

- 1) Answer all questions.
- 2) All books and materials are allowed.
- 1. What is the major benefit of Value Engineering over Industrial Engineering and Quality Control? Explain the benefit of VE in product design.

(15 points)

- 2. What is the objective of VE phase as the following:
 - 2.1 selection phase
 - 2.2 function phase
 - 2.3 creation phase
 - 2.4 evaluation phase

(20 points)

- 3. Analyse and list the basic functions of the products as the following:
 - 3.1 watch
 - 3.2 cup of tea
 - 3.3 name card
 - 3.4 condom
 - 3.5 document file

(25 points)

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4. Assume the basic functions from 3., draw a sketch design of innovation for condom and document file.

(30 points)

5. Draw a sketch design for an ideal car using creative thinking principle.

(10 points)

Prepared by

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