

PRINCE OF SONGKLA UNIVERSITY
FACULTY OF ENGINEERING

Final Examination: Semester 1

Academic Year: 2009

Date: 25 July 2009

Time: 09.00-11.00 (2 hours)

Subject Number: 241-500

Room: Robot's Head

Subject Title: Research and Development Methodologies

Exam Duration: 2 hours (120 minutes)

This paper has 5 pages, 8 questions 60 marks (20%).

Authorised Materials:

- Writing instruments (e.g. pens, pencils).
- Textbooks, a notebook, handouts, and dictionaries are not permitted.

Instructions to Students:

- Scan all the questions before answering so that you can manage your time better.
- Write your answers in Thai only.
- Write your name and ID on every page.
- Any unreadable parts will be considered wrong.

Cheating in this examination

Lowest punishment: Failed in this subject and courses dropped for next semester.

Highest punishment: Expelled.

NO	Time (Min)	Marks	Collected	NO	Time (Min)	Marks	Collected
1	8	4		5	14	7	
2	24	12		6	16	8	
3	8	4		7	20	10	
4	24	12		8	6	3	

Name _____ ID _____

Question 1

(4 marks; 8 minutes)

Explain the **meanings** of the following words.

a) Contribution

b) Research

Question 2

(12 marks; 24 minutes)

Explain the **meanings** of the following words **and** also **give examples**.

a) Basic research

b) Applied research

c) Motivation

d) Plagiarism

Question 3

(4 marks; 8 minutes)

Compare the following types of research papers and give reasons for publications.

a) Conference proceedings

b) Journals

Question 4

(12 marks; 24 minutes)

Give an example for each of the following item.

a) Objectives

b) Scopes

c) Contributions

Question 5

(7 marks; 14 minutes)

List 7 questions should be asked when starting a research.

Question 6

(8 marks; 16 minutes)

List items that must be in a proposal.

Question 7

(10 marks; 20 minutes)

Tell if the following reasons for selecting a research topic are **true or false**.

- a) _____ Let's get results anyway, publish quickly.
- b) _____ It's not me, but the society that benefits most out of it.
- c) _____ It's not me, but the society that benefits most out of it.
- d) _____ Everybody is screaming for helps, somebody got to solve it.
- e) _____ It looks easy to get results.
- f) _____ Everybody is working on it.
- g) _____ Lots of literatures at hand.
- h) _____ There are a lot of places to send papers.
- i) _____ If I don't solve it, that would push us to a whole new world.

Question 8

(3 marks; 6 minutes)

Give 3 reasons why do we need to do research.

Pichaya Tandayya

Lecturer