PRINCE OF SONGKLA UNIVERSITY
FACULTY OF ENGINEERING

Midterm Examination: Semester 2   **Academic Year**: 2009

Date: 22 December 2009   **Time**: 09.00-11.00 (2 hours)

Subject Number: 241-500   **Room**: R200

Subject Title: Research and Development Methodologies

Exam Duration: 2 hours (120 minutes)

This paper has 7 pages, 8 questions 60 marks (20%).

Authorised Materials:

• Writing instruments (e.g. pens, pencils).

• Textbooks, a notebook, handouts, and dictionaries are <u>not</u> 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	25	16		5	10	5	
2	10	4		6	20	15	
3	15	6		7	10	4	
4	15	6		8	5	3	
Total	110	Marks (60)				Marks (20%)	

Name_____ID_____

Question 1 (16 marks; 25 minutes)

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

a) Contribution

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b) Basic research

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c) Applied research

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d) Motivation

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e) Plagiarism

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Question 2 (**4 marks; 10 minutes**)

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

  a) Conference proceedings

_____

_____

_____

  b) Journals

_____

_____

_____

Question 3   **(6 marks; 15 minutes)**

Give an example for each of the following items.

a)   Objectives

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_____

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_____

b)   Scopes

_____

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_____

c)   Contributions

_____

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Question 4   **(6 marks; 15 minutes)**

Explain the following types of plagiarism

a) The Self-Stealer

_____

_____

_____

b) The Ghost Writer

_____

_____

_____

_____

Name_____ID_____

c) The Potluck Paper

_____

_____

_____

d) The Misinformer

_____

_____

_____

e) The Resourceful Citer

_____

_____

_____

f) The Perfect Crime

_____

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_____

Question 5   **(6 marks; 15 minutes)**
List 6 questions should be asked when starting a research.

_____

_____

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Question 6   **(15 marks; 20 minutes)**

a)   List items that should appear in a proposal.

_____

_____

_____

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b)   List items that should appear in a paper.

_____

_____

_____

c)   List chapters that should appear in a thesis

_____

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_____

Question 7   **(4 marks; 10 minutes)**

Explain the two popular quantitative ways to judge how good a paper is.

a) Impact Factor

_____

_____

_____

_____

b) Citation Index

_____

_____

_____

_____

Question 8

(3 marks; 5 minutes)

Give 3 reasons why we need to do research.

_____

_____

_____

_____

Pichaya Tandayya

Lecturer

Name_____ID_____