

Midterm Examination: Semester 1 Academic Year: 2006

Date: 1 August, 2006 **Time**: 13:30 – 15:30 (2 hours)

Subject Code: 240-322 **Room**: A401

Subject Title: Client/Server Distributed Systems

Lecturer: Aj. Worraprot, Aj.Dillip

Exam Duration: 2 hours This paper has 2 pages.

Authorized Materials:

- Writing instruments (e.g. pens, pencils).
- Books (e.g. dictionaries) and calculators are not permitted.

Instructions to Students:

- Attempt all questions.
- Write your answers in an answer book.
- Start your answer to each question on a new page
- Clearly number your answers.
- Any unreadable parts will be considered wrong.

When writing programs, use good layout, and short comments; marks will not be deducted for minor syntax errors

Student ID :	Name :	Section:

ทุจริตในการสอบ โทษขั้นต่ำคือ ปรับตกในรายวิชาที่ทุจริต และพักการเรียนหนึ่งภาคการศึกษา

	Student ID:	Section
Part I Answer the following question.		(30 marks)

- 1. Give a definition and a good Example for Client Server Model.
- 2. Explain Advantages of Client/Server.
- 3. What is Distributed Programming?
- 4. Explain the Database Access in .Net and in JAVA.
- 5. What is RMI?
- 6. What is CORBA?
- 7. What is P2P (Briefly)?
- 8. Give examples of P2P Applications?
- 9. Why use Low-Level Operations?
- 10. What is a Process?
- 11. What is Transaction Processing and what is ACID?
- 12. What are the Major Differences between .Net & Java?
- 13. What are the Basic Operations in Low Level File I/O?
- 14. Explain about File Information in UNIX System.
- 15. What is Metadata and how it is Useful in Internet?

Part II Complete the following program

(10 marks)

Write an ANSI C program that forks a child. The parent then wait for the child to finish. The child opens the file *message.txt* and also writes it to *stdout*. The child processes must use low-level file I/O commands. After the child is finish, the parent writes the message "Success child process" to stdout. Use low level I/O function to read/write file.