

PRINCE OF SONGKLA UNIVERSITY
FACULTY OF ENGINEERING

Midterm Examination: Semester 1

Academic Year: 2004-2005

Date: August 2, 2004

Time: 09:00 - 12:00

Subject Number: 240-574

Room: A200

Subject Title: Special Topics Information Network Engineering I
(Internet and its Protocols)

Exam Duration: 3 hours

This paper has 2 pages (including this page).

Authorised Materials:

- Anything the student can carry.

Instructions to Students:

- *Answer questions in English.* Good English is **not** required.
- Attempt all questions
- Write answers in an answer book
- **Clearly Number** the answers. It is **not** required that questions be answered in order.
- Anything illegible is incorrect.
- Answer briefly where possible, essays are not required.
- The marks allocated for each question are shown next to that question. There are 10 marks total for this examination, which will contribute 5% of the course total.

Question 1. *(2 marks)*

Which of the following is not an Internet Protocol?

- A) TCP
- B) Ethernet
- C) TFTP

Question 2. *(2 marks)*

Which of TCP and UDP has the smaller headers?

Question 3. *(2 marks)*

How many bytes are needed to represent the binary form of an IP version 4 address?

Question 4. *(2 marks)*

Is IP fragmentation the process of dividing a packet into smaller parts, or combining smaller parts into a bigger packet?

Question 5. *(2 marks)*

Which of the following is **not** included in a pseudo-header checksum?

- A) Source IP address.
- B) Packet Length
- C) Time to Live