淡江大學八十七學年度碩士班入學考試試題

系別： 教育科技學系　　科目： 資訊概論

本試題共 １ 頁

一、問答題 (78%)

1. Give an example and explain the five phase of the systems development life cycle in your example. (15%)
2. What is the distinction between systems analysis and systems design?(6%)
3. What is the color model used by a computer monitor?(3%)
4. Explain how a relational database organizes data? (6%)
5. Explain how a parity bit alerts the computer to errors.(3%)
6. Explain the differences between SRAM and DRAM?(6%)
7. What is a protocol, and why are protocol standards important? (6%)
8. Explain the differences between multiprocessing, and multitasking.(6%)
9. Explain the differences between virtual memory and cache memory.(6%)
10. How is word processing software different from desktop publishing software? In what way are word processing software and desktop publishing software used together? (6%)
11. How are machine languages and assembly languages different? In what way are low-level languages different from high-level language? (6%)
12. What is data compression? How is lossless compression different from lossy compression? For what kind of data is each type of compression used?(9%)

二、解釋名詞 (18%)

1. ISDN
2. LAN
3. T1
4. TCP/IP
5. Worm
6. GUI
7. SQL
8. Pixel
9. OOP

三、 是非題(T or F) (4%)

1. With virtual machines, more than one operating system can be used at the same time.
2. Computer crime is difficulty to detect and even more difficulty to prevent.
3. All networks must have a host or file server.
4. An existing indexed disk record may be altered and then rewritten onto the same physical space on the disk.