

資訊概論 試題

(限用答案本作答)

1. (20%) Please convert the following binary numbers to decimal and to hexadecimal:  
(a) 101010            (b) 1010.10
2. (10%) Please list two popular computer operating systems, and three types of application software.
3. (10%) Computer hardware is made up of five parts. Please list and describe them.
4. (10%) Please describe the two major categories of software.
5. (10%) What is the exact number of bytes in a system that contains (a) 128M bytes, and (b) 20G bytes?
6. (10%) Assume a 3-input OR gate with output X and a 3-input AND gate with Y. Input are A, B, and C. Show the signals of the outputs X and Y as functions of the three inputs ABC. Use all 8 possible combinations of ABC.
7. (10%) Show that a positive logic NAND gate is a negative logic NOR gate and vice versa.
8. (10%) Please list and describe the terms behind the acronym TCP/IP.
9. (10%) Please differentiate between (a) an analog and a digital data, and (b) guided media and unguided media.

試題完