

1. 何謂串列資料傳輸? 何謂並列資料傳輸? 各舉一例說明之。(10%)
2. 一般微處理機之 I/O 介面卡有那些主要部分? 畫方塊圖並簡要說明各主要部分之功能。(10%)
3. 解釋名詞: (a) CISC microprocessors (b) RISC microprocessors (c) Local bus (d) ISA bus (e) PCI bus (f) FLASH memory (g) Polling (h) DMA (i) Handshaking I/O (j) Parallel printer port data acquisition (30%)
4. List three types of external Cache memory and describe their functions. (15%)
5. Describe the difference between Mad-endian Bus and Sad-endian Bus. (10%)
Which kind of bus belongs to Mad-endian Bus?
Which kind of bus belongs to Sad-endian Bus?
Which kind of bus does not belong to either Mad-endian Bus or Sad-endian Bus?
Just give one example for each question above and have necessary explanation. (10%)
6. Explain non-maskable interrupt, user-maskable interrupt, and vectored interrupts. (15%)