

國立臺北科技大學 101 學年度碩士班招生考試

系所組別：1522 自動化科技研究所乙組

第二節 計算機概論 試題 (選考)

第一頁 共一頁

注意事項：

1. 本試題共 6 題，配分共 100 分。
2. 請標明大題、子題編號作答，不必抄題。
3. 全部答案均須在答案卷之答案欄內作答，否則不予計分。

(40%) 1. Explain the following terms

- (8%) (a). Unicode
- (8%) (b). DMA
- (8%) (c). Instruction pipeline
- (8%) (d). GUI
- (8%) (e). Cloud computing

(10%) 2. What is the largest positive integer that can be represented in a two's complement system in which each value is represented by eight bits?

(10%) 3. Describe how a computer can produce an incorrect answer when performing numerical computations even though it has not malfunctioned.

(10%) 4. Describe the machine cycle.

(20%) 5. Explain the concept of throughput and techniques by which throughput is increased.

(10%) 6. What are two protocols for implementing the transport level in the "TCP/IP hierarchy"?