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"?

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