系所**:多媒體設計系碩士班科技組** 准考證號碼:

100 學年度碩士班考試入學暨碩士在職專班試題

科目:計算機概論

注意事項

- 1.答案卷書寫題號依序作答,不必抄題。
- 2.答案卷不可書寫任何可辨別個人姓名或特殊標記,違反者以零分計算。
- 3.請於試題紙上填寫准考證號,繳卷時「試題」、「答案卷」一併繳回。

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- 、选择超(15%)				
mcorrectly, but not	amming, a (semantic to terminate abnormally. b. Run-time error	error) is a bug in a prog	ram that causes it to operate	.
A) that applies to coras well as in imagB) that augments useC) that functions muD) for a live direct or	ty (AR) is a term	s that can simulate physica ople over the Internet allowing callers to leave a vector of the control of the c	voice message for the called me	aulus s
3 is the appea a. Graphic	rance of motion created by disp b. Animation c. Audio	laying a series of still imag d. Virtual reali	es in sequence. ty	
communicis.	user interface that allows users to		· ·	ı text
5 is a general	term for an area of computer so	cience that is concerned wi	th the intersection of social beh	avior

二、問答題(85%)

1. 解釋下列專有名詞: (20%)

a. Knowledge management

(1). HTML5 (2). Multi-touch screen (3). Lossy/Lossless Compression (4). QuickTime (.MOV)

b. Cloud computing c. Operating system

and computational systems. It has become an important concept for use in business..

- (5). Cascading Style Sheets (CSS)
- 2. 分別說明 Binary Search 和 Exhaustive Search (Sequential Search) 演算法,並分析其複雜度為何? (20%)
- 3. 設 A 為 111000(二進位值),B 為 101001(二進位值),C 為 000100(二進位值),計算下列各運算式的結果:
 - (1). \mathbf{A} AND \mathbf{B} (2). \mathbf{A} XOR \mathbf{B} (3). \mathbf{A} OR \mathbf{C} (4). NOT((\mathbf{A} AND \mathbf{B}) OR (\mathbf{B} AND \mathbf{C})) \circ (15%)
- 4. 在智慧型手機(如 Android 或 iOS 系統)上如何利用多媒體的特性提供新的應用服務? 試提出你的具體想法。(10%)
- 5. 費伯納數列 (Fibonacci number) 第 F(n) 項值的定義為:

F(n) = F(n-1) + F(n-2),其中 n 為大於或等於零的整數, F(0) = 0 且 F(1) = 1。

- (1). 請列出 F(0), F(1), ..., F(8)數列。(5%)
- (2). 試以遞迴 (Recursion) 方式寫出求 F(n) 的程式碼 (可使用任何你所熟悉的程式語言)。(15%)