

元智大學 102 學年度研究所 碩士班 招生試題卷

系(所)別：工業工程與管理  
學系碩士班

組別：不分組

科目：計算機概論

用紙第 1 頁共 1 頁

●不可使用電子計算機

- (1) Please answer the following questions (15%, each 5%)
  - (a) Convert  $(188.875)_{10}$  into equivalent hexadecimal number.
  - (b) What is the result of  $(11000011 \text{ XOR } 10110101)$ ?
  - (c) What is the value of  $F(7)$  if you have a recursive function  $F(n) = n + F(n-1) + 1$  and  $F(1) = 0$ ?
- (2) Please answer the following questions (15%, each 5%)
  - (a) What is Augmented Reality (in multimedia)?
  - (b) What is E-R Diagram (in database)?
  - (c) What is Proxy Server (in Internet)?
- (3) Please answer the following questions (10%, each 5%)
  - (a) What is inheritance in object-oriented programming?
  - (b) What is the difference between "class" and "object" in object-oriented programming?
- (4) Please explain the following questions (10%, each 5%)
  - (a) What is NFC?
  - (b) What is Bluetooth?
- (5) Picture and explain what a cloud computing is? (20%)
- (6) Picture and differ a structure of database from that of data warehouse. (20%)
- (7) Picture and explain the five components of a computer. (10%)

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