## 國立成功大學 111學年度碩士班招生考試試題

編 號: 227

系 所:會計學系

科 目:計算機概論

日期: 0220

節 次:第2節

備 註: 不可使用計算機

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考試科目:計算機概論	考試日期:0220,節次:2
第1頁,共3頁	
※ 考生請注意:本試題不可使用計算機。 請於答案卷(卡)作答,於本試題紙	上作答者,不予計分。
一、選擇題 50 分(每題五分)	
How many different symbols can be encoded using Unicode?	
A. 256 B. 4,096 C. 65,536 D. 1,046,476  2. Which of the following is not a role of a typical operating system?	
2. Which of the following is not a role of a typical operating system:	
A. Control the allocation of the machine's resources	
B. Control access to the machine	
C. Maintain records regarding files stored in mass storage	
D. Assist the computer user in the task of processing digital photographs	
Which of the following would not require real-time processing?	
A. Typing a document with a word processor	
B. Navigation of an aircraft	
C. Forecasting word-wide trade for the next five year period	
D. Maintaining a airline reservation system	
4. Which of the following is not a protocol used in the basic TCP/IP software hierarchy?	
A. POP3 B. UDP C. TCP D. IP	
5. Which of the following identifies the application to which a message arriving from the Integiven?	rnet should be
Riveus	
A. Protocol B. Port number C. Domain D. Hop count	
6. Which of the following is not a means of repeating a block of instructions?	
' A. Pretest loop B. Posttest loop C. Recursion D. Assignment statement	
7. Which of the following is a means of defining similar yet different classes in an object-ories	nted program?
A. Inheritance B. Parsing C. Coercion D. Code optimization	

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D. Beta testing

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第2頁,共3頁
8. Which of the following is a means of controlling the complexity of a software system?

- 9. If the two-dimensional array X were stored in row-major order, then in the block of main memory containing X, which of the following would be true?
  - A. The entry X[1,2] would appear before X[2,1].

A. CRC cards B. Modularity C. Specifications

- B. The entry X[1,2] would appear after X[2,1].
- C. The entry X[1,2] would be in the same location as X[2,1].
- D. None of the above
- 10. Suppose a binary tree contained the nodes W, X, Y, and Z. If W and X were children of Y, and Z had no children, which node would be the root?

B. X C. Y D. Z A. W

- 二、非選擇題 50 分
  - 1. (10%) If A(2,3) is in location (address) 1756 and A(3,3) is in location 1760, where is A(4,4)?
  - 2. (10%) Given the two relations X and Y below

Y: <u>C</u> D 2 s t 5 z r 3

what values would be in the tuple produced by the following statements?

Temp  $\leftarrow$  JOIN X and Y where X.A = Y.D Result ← PROJECT X.B, Y.C from Temp

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## 第3頁,共3頁

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3. (10%) Suppose the variable X in the following Bare Bones program has the value 3 when execution begins.

clear Y;
decr X;
while X not 0 do;
 decr X;
 incr Y;
end;

A. What will be the value of X when the program terminates?

B. What will be the value of Y when the program terminates?

- 4. (10%) If we were using RSA encryption with the private keys *n* = 133 and *d* = 5, what would be the decrypted version of the encrypted message whose bit pattern is 11?
- 5. (10%) Based on the grammar below, draw a parse tree showing that the string "drip drip" is a Leak.

Leak:

