(101)輔仁大學碩士班招生考試試題解答

考試日期:101年3月9日第3節

本試題共2頁(本頁為第1頁)

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系所組:電機工程學系(丙組)

-) Computer resources are shared by many jobs or tasks, it is called ____: (A) batch processing, (B) operation systems, (C) distributed computing, (D) multitasking, (E) client-server computing, (F) all of the above, (G) none of the above. (5%) is an English-language-like representation of code. (A) A C program, (B) A UML diagram, (C) A pseudocode, (D) An algorithm, (E) A logic operation, (F) All of the above, (G) None of the above. (5%)) In Internet, the ____ layer of the TCP/IP protocol suite is responsible for source-todestination delivery of the entire message. (A) Application, (B) Transport, (C) Network, (D) Data-link, (E) Physical. (5%) See the following program, what is the final value of the variable 'i' when the "for" loop is correctly executed and normally finished? (5%) x = 3; y = 12;for $(i = 7; i \le x*y; i += y/x)$ printf ("%d\n", i+1); If we want to get a random number, whose range is from 5 to 13. Please use the random function and write down the part of C program? (5%) Find the minimum number of octal digits required to store decimal integers with a maximum of **nine digits**. (Hint: log2 = 0.3010) (5%) Please use enumeration method and C program to answer the following questions. (1) Please **define a data type**, which contains three statuses: "CONTINUE", "WON", and "LOST". (2) Please declare a variable "gameStatus", which has this data type (that is, the gameStatus can be the "CONTINUE", "WON", or "LOST"). (5%) (3) What are **the default values** of the "CONTINUE", "WON", and "LOST" in C program? (5%) What are multitasking (3%) and timesharing (3%) in computer systems? Please compare the main difference between them (4%). Please **list the correct order** of developing a C program: (5%). (A) Compile, (B) Edit, (C) Execute, (D) Link, (E) Preprocess, (F) Load.
- ※ 注意:1.考生須在「彌封答案卷」上作答。
 - 2.本試題紙空白部份可當稿紙使用。
 - 3.考生於作答時可否使用計算機、法典、字典或其他資料或工具,以簡章之規定為準。

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10. Show the real number -11.40625 using 32-bit IEEE format. (10%)

- 11. Three processes (A, B, and C) are running concurrently. Process A has acquired File 1, but needs File 2. Process B has acquired File 3, but needs File 1. Process C has acquired File 2, but needs File 3. (1) Please draw a diagram for these processes and situation. (5%) (2) Is this a deadlock situation? Please explain your answer. (5%)
- 12. Please draw a picture to describe the pipelining and its purpose. (10%)
- 13. There are two methods for handling the addressing of I/O device: isolated I/O and memory mapped I/O. Please describe these two methods. (10%)

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