注意:考試開始鈴響前,不可以翻閱試題

台灣聯合大學系統 111 學年度學士班轉學考試題

考試科目:計算機概論

組別: A4

参考用

一作答注意事項-

- 1. 作答中如發現試題印刷不清,得舉手請監試人員處理,但不得要 求解釋題意。
- 2. 請核對答案卷(卡)上之准考證號、考試科目是否正確。
- 3. 本考科禁止使用計算器。
- 4. 選擇題請在答案卡上作答。
- 5. 考生限在作答區內作答,不可書寫姓名、准考證號或與作答無關 之其他文字或符號。
- 6. 答案卷用盡不得要求增加。
- 7. 答案卷限用藍筆或黑色鋼筆、原子筆或鉛筆書寫;答案卡限用 2B 軟心鉛筆畫記,如畫記不清(含未依範例畫記)致光學閱讀機無 法辨識答案者,其後果考生自行負責。
- 8. 因字跡潦草或作答未標明題號等情事,致評閱人員無法辨識答案者,該部分不予計分。

How many bits are required for each address field in a machine language

Typically, what do we refer to a program written in assembly language as?

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instruction on a computer with a maximum of 2^N memory cells?

(E) RISC

(A) N-1
(B) N+1
(C) 2N
(D) 2^N
(E) N

(D)

(A) Data Program(B) Object Program(C) Control Program

Stored Program

(E) Source Program

5.

台灣聯合大學系統 111 學年度學士班轉學生考試試題 共夕頁第三頁 類組別 計算機概論 科目 What should be transmitted to the processor to alert the computer that an input/output operation has been completed? (A) Condition Code (B) Execution Instruction (C) Operand Address (D) Interrupt Signal Switch Context (E) Which machine is able to provide the set of services and resources created 7. by the system software and made available by the users? (A) Harvard (B) Multi-Tasking (C) Virtual (D) Von Neumann Super-computing (E) Which type of computer network allows third parties (such as vendors or 8. customers) to access restricted information? (A) Intranet (B) Middlenet (C) Lannet (D) Internet (E) Extranet 9. What is the device that connects internetworks and provides routing between different wide area networks? (A) Gateway (B) Switch (C) Bridge (D) Repeater (E) Hub 10. Which following representation of numeric data has two forms of zero? (A) Fixed-sized Numbers (B) Floating Point

(C) Signed-magnitude

(D) Ten's Complement

Scientific Notation (E)

台灣聯合大學系統 111 學年度學士班轉學生考試試題 共夕頁第3頁 科目 計算機概論 類組別 11. What type of computer application is designed to facilitate the exchange of messages and files on a network? (A) Chat Room (B) Social Network (C) Bulletin Board System (D) World Wide Web (E) Internet of Things 12. What is the common term used to describe John Von Neumann's radically different computer concept based on a model conceived in 1946? (A) External Program (B) Stored Program (C) Programmable Function (D) Memory Unit (E) Firmware 13. What is the process involved in finding errors that are uncovered by repeated use with varying input values? (A) Resource Recycling (B) Program Maintenance (C) Data Warehousing (D) Garbage Collection (E) Buffer Management 14. Which gate produces the carry portion of two binary digits in a half adder? (A) AND (B) NAND (C) XOR (D) OR (E) NOR 15. Which process is used to verify who is granted access to one computer, whether it is a local computer or a Web server? (A) Authorization (B) Encryption (C) Certification

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(D) Authentication

(E) Accounting

台灣聯合大學系統 111 學年度學士班轉學生考試試題 共 9 頁 第 4 頁 類組別 A4 科目 計算機概論 16. Which unit of binary storage has a size that is processor-dependent? (A) Byte (B) Nibble (C) Bit (D) Word (E) Block 17. Which are useful for measuring the performance of one machine against another, and evaluating the sensitivity of an algorithm to variations in input on a particular machine? (A) Time Trials (B) Multivariate Analysis (C) Comparison Times (D) Turing Tests (E) Benchmarks 18. What is the common practice of sending fraudulent messages to trick recipients into releasing sensitive information or installing malicious software on their system? (A) Fishing (B) Pharming (C) Blasting (D) Phishing (E) Hijacking 19. How does a numeric overflow occur? (A) Using fixed-sized numbers in a floating-point calculation (B) A calculation producing an invalid result (C) A calculation producing a value that won't fit into the allotted space (D) Using a radix point instead of a decimal point Using a radix point in a fixed-sized number calculation (E)

20. Which of the following is the best description of a register?

(A) A memory location which stores a sum

- (B) A device that contains the arithmetic/logic unit
- (C) A device that contains the control unit
- (D) A large memory location in auxiliary storage
- (E) A small memory location in the central processing unit

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科目<u>計算機概論</u> 類組別 A4 共 9 頁 第 5 頁

- 21. Which of the following is stored in the instruction register?
 - (A) The memory location of an instruction
 - (B) An instruction
 - (C) The number of program instructions executed
 - (D) The number of programs executed
 - (E) The data used by an instruction

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  22. Given the following C code,
      #include <stdio.h>
      void add(unsigned a) { ++a; }
      void sub(unsigned *a) { --(*a); }
      unsigned a = 0;
      int main() {
        if (a = 3) {
          for (int i = 0; i < 2; i++)
            add(a);
          for (int i = 0; i < 2; i++)
           sub(&a);
        printf("%u", a);
        return 0;
     what is the output displayed on the screen?
     (A) 0
     (B) 1
     (C) 3
     (D) 5
```

(E) None of the above

共 2 頁 第 2 頁

科目__計算機概論_____類組別_____A4_____ 23. Given the following C code, #include <stdio.h> int A(int m, int n) { if (m == 0)return n + 1; else if (n == 0)return A(m - 1, 1); else return A(m - 1, A(m, n - 1));} int main() { printf("%d", A(2, 2)); return 0; what is the output of the following code? (A) 4 (B) 5 (C) 6 (D) 7

(E) 8

共 9 頁 第 8 頁 科目___計算機概論_____類組別 24. Given the following C code, #include <stdio.h> #include <unistd.h> int main() { for (int i = 1; i < 5; i++) { if ((fork()) == 0) fork(); else { fork(); fork(); return 0; } how many processes are created (including the main process)? (A) 256 (B) 625 (C) 3125 (D) 1296 (E) 7776

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 25. Given the following C code,
 #include <stdio.h>

 void f(char *in) {
 (*in--)++;

 }
 void (*p)(char *) = f;

 int main() {
 char c = 48;

return 0;

printf("%d", c);

p(&c);
p(&c);

}

what is the output of the following code?

- (A) 49
- (B) 50
- (C) 51
- (D) 52
- (E) None of the above