台灣聯合大學系統 111 學年度學士班轉學生考試試題

科目_	計算機概論	類組別	A4	共 9 頁 第 / 頁			
單注	選題 ,共 25 題	,每題4分(答錯	昔不倒扣)				
1.	Which operati	on is functionally	complete in Boo	lean logic?			
	(A) OR						
	(B) NOR						
	(C) NOT						
	(D) AND						
	(E) None of t	he above					
2.	Which algorithm or representation is typically used for circuit construction?						
	(A) Logic O ₁	otimizer					
	(B) Branch-a	nd-Bound					
	(C) Multiply	-Accumulate					
	(D) Sum-of-	Products					
	(E) Dynamic	Programing					
3.	Which of the machines is designed to directly provide a wide range of						
	powerful featu	powerful features in such a way that the end result is a smaller program?					
	(A) MISC						
	(B) CISC						
	(C) SISC						
	(D) SICC						
	(E) RISC						
4.	How many bits are required for each address field in a machine language instruction on a computer with a maximum of 2 ^N memory cells?						
		a computer with a	maximum of 2 ^N	memory cells?			
	(A) N-1						
	(B) $N+1$						
	(C) 2N						
	$(D) 2^{N}$						
	(E) N						
5.	Typically, what do we refer to a program written in assembly language as?						
	(A) Data Pro	gram					
	(B) Object Pr	rogram					
	(C) Control I	Program					
	(D) Stored Pr	ogram					
	(E) Source P	rogram		ı			
			注:背面有試題				

台灣聯合大學系統 111 學年度學士班轉學生考試試題 共夕頁第乙頁 科目<u>計算機概論</u> 類組別_____A4 What should be transmitted to the processor to alert the computer that an 6. input/output operation has been completed? (A) Condition Code (B) Execution Instruction (C) Operand Address (D) Interrupt Signal (E) Switch Context 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 (E) Super-computing 8. Which type of computer network allows third parties (such as vendors or customers) to access restricted information? (A) Intranet (B) Middlenet (C) Lannet (D) Internet (E) Extranet What is the device that connects internetworks and provides routing between 9. 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

(E) Scientific Notation 注, 华品女科

(B) Floating Point

(C) Signed-magnitude(D) Ten's Complement

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 3 頁 科目<u>計算機概論</u>類組別____A4____ 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
 - (D) Authentication
 - (E) Accounting

注:背面有試題

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4頁 科目___計算機概論_____類組別_____A4_____ 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 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)
- Which of the following is the best description of a register? 20.
 - (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
 - A small memory location in the central processing unit (E)

台灣聯合大學系統 111 學年度學士班轉學生考試試題

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- 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

注:背面有試題

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共 9 頁 第 6 頁
科目___計算機概論_____類組別_____A4
  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 9 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_______類組別______A4______
  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
```

共 9 頁 第 9 頁

科目__計算機概論_____類組別_____A4_____ 25. Given the following C code, #include <stdio.h> void f(char *in) { (*in--)++; void (*p)(char *) = f; int main() { char c = 48; p(&c); p(&c); printf("%d", c); return 0; } what is the output of the following code? (A) 49

> (B) 50 (C) 51 (D) 52

(E) None of the above