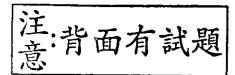
科目計算機概論類組別	A4 802 951	共 <u>る</u> 頁 第 <u></u> 上頁
*請在答案卡內作答		
單選題 (1~16), 每題 5 分, 不倒扣		
1. Convert the decimal integer -107 to sign-an (A) 1110 1011 (B) 1111 1011 (C) 1110 1001 (D)	nd-magnitude with 8-bit alloo) 0110 1011 (E) None of the	cation. Which one is correct? above
2. Which of the following gate represents the f (A) Exclusive-OR (B) OR (C) NAND (D	function that f(0,0)= 0, f(0,1)) NOR (E) None of the abo)=1, f(1,0)=1, f(1,1)=0. ove
 A computer has 128 MB (megabytes) of maddress each single word in memory? (A) 24 (B) 25 (C) 26 (D) 27 (E) None of the about 		es. How many bits are needed to
4. The layer is responsible for procommunication is created between the client at (A) data link (B) network (C) transport (D)	nd the server computer.	
5. Operating systems can be divided into two b and multiprogramming. (A) memory (B) process (C) device (D) file		management: mono-programming
6. The layer has a specific duty: routing. packet. (A) data link (B) network (C) transport (D)		
7. Choose the following items that are the nece(A) Mutual Exclusion(B) Hold and wait(C) No preemption(D) Circular waiting(E) Above of all	essary condition(s) for the d	leadlock.
8. What is the output of the following code? (A) 2 (B) 2457 (C) 2456 (D) 2357 (E) None of the above.	<pre>int i=2; while (i<8) { printf("%d", i) i= i+j%3; }</pre>	
9. What is the output of the following code? (A) 2 (B) 4 (C) 6 (D) 8 (E) None of the above.	void main(void) { int n = 0; if (n = 0) n = 2; else if (n = 2) n = 4; else if (n = 4) n = 6; else if (n = 6) n = 8; printf ("%d\n", n); }	考月



```
共3頁第2頁
 科目___計算機概論_____ 類組別____A4 802 951
 *請在答案卡內作答
10. Consider the C code piece on the right
                                               int main (void)
side. What is the output?
(A) 1
                                               = \inf a1[3][3] = \{\{1,2,3\},\{4,5,6\},\{7,8,9\}\};
(B) 6
                                                 printf("%d", a1[1][2]+a1[2][1]);
(C) 14
                                                  return 0;
(D) 16
(E) None of the above.
                                               int f(int b, int a)
11. Consider the C code piece on the right
side. What is the output?
(A) -2
                                                  return b-a;
(B) -1
(C) 0
                                               int main(void)
(D) 4
(E) None of the above.
                                                  int a=4, b=1;
                                                  printf("%d", f(2,f(a,b)));
                                                  return 0;
12. Consider the C code piece on the right side. Which of inta = 9;
the following is correct regarding the computing result?
                                                         int *aPtr = &a;
(A) a = 9 and & a = 9
(B) &a= 9 and aPtr= 9
                                                         return 0;
(C) aPtr= 9 and *aPtr= 9
(D) a=9 and *aPtr=9
(E) None of the above
                                                 int a, b, c;
13. Consider the C code piece on the right side.
Which of the following is correct after executing
                                                 a=3:
                                                 b=3%2;
the code piece?
(A) c= 3 and a=3 (B) c= 3 and a=1
(C) c= 2 and a=3 (D) c= 2 and a=0
                                                 a/=2;
(E) None of the above
                                                 #include <stdio.h>
14. What will the following program output?
                                                 #include <string.h>
         (B) 23
(A) 11
(C) 24
         (D) 25
                                                 int main(void)
(E) None of the above
                                                  char s[24]="Hello Word!";
                                                  printf("%d",strlen(s));
                                                  return 0;
```

注:背面有試題

台灣聯合大學系統 104 學年度學士班轉學生考試試題 共3頁第3頁 科目 計算機概論 類組別 A4 802 951 *請在答案卡內作答 #include <stdio.h> 15. What will the following program output? int main(void) (A) -1 (B) 1 (C) 2 (D) 4 (E) None of the above int a=17, b=9;while (a!=b) if (a>b) a=a-b; else b=b-a; printf("%d",a); return 0; 16. What will the following program output? int main(void) (A) 0 (B) 5.03 (C) 10.06 (D) 10 printf("%d", (float)5.03+(int)5.03); (E) None of the above return 0; 多選題, 一題 5 分, 每一選項單獨計分, 答錯倒扣 17. Which of the following is correct? (A) The object-oriented paradigm deals with active objects instead of passive objects. (B) C++, Pascal and Java are object-oriented language. (C) FORTRAN, COBOL are procedural language. (D) LISP and Scheme are common functional language. (E) PROLOG is one of the best known declarative languages.

18. Consider the figure on the right side.

(A) The order of the nodes using prefix traversal is $x + -1238 + \div 42$

(B) The order of the nodes using infix traversal is $(1-2+3)\times(8+\div42)$

- (C) The tree is a binary tree.
- (D) 3 and 8 are internal node.
- (E) is an internal node.



- 19. Choose the following items that are correct regarding computer security.
- (A) Symmetry-key cryptography uses a single key for encryption and decryption.
- (B) Asymmetrc-key cryptography uses only one public key.
- (C) Confidentiality, integrity and availability are three goals of security.
- (D) AES is an example of a modern asymmetric-key cipher.
- (E) Steganography is the technique of concealing a message, image, or file within another message, image, or file.
- 20. Choose the following items that are correct regarding file structures.
- (A) Sequential and random are two general types of file access methods.
- (B) An indexed file cannot be accessed randomly.
- (C) If the transaction file key is 17 and the first master file key is 21, then we add the new record to the new master file.
- (D) An indexed file consists of an index and a random data file.
- (E) When a hashing algorithm produces an address for an insertion key and that address is already occupied, it is called a colission.