大同大學九十一學年度轉學考試試題

考試科目:計算機概論

系別:資訊工程學系

級別:二年級

第1頁,共3頁

不可以使用計算器。 註:本次考試 不可以參考自己的書籍及筆記; 不可以查字典; 、選擇題(單選題, 每題二分) 40%: [※請依題號順序答於答案卷上] Each of the following is a major category of computers except_ 1. minicomputer laptop computer b. supercomputer c. personal computer ROM memory is described as nonvolatile because 2. it can be altered but cannot be read or used data and programs can be transferred into and out of ROM b. its contents are erased when the power is turned off it retains its contents even when the power is turned off technology increases overall processing capability by reducing the instructions to only those that are most frequently 3. used. **SCSI** a. CISC b. RISC c. d. MIDI Each of the following is a factor that determines access time on a hard disk except_ 4. seek time a. rotational delay b. recording density c. data transfer rate d. The 2's complement of binary number 10001 is 5. 01110 a. 01111 b. 10000 c. 10001 d. is a computer system that maintains a centralized collection of information in the form of electronic messages. A(n)6. e-mail system global positioning system (GPS) b. electronic data interchange (EDI) bulletin board system (BBS) d. A multiplexer, sometimes referred to as a MUX, converts digital signals of a computer into analog signals that are transmitted combines more than one input signal into a single stream of data b. handles the communications requirements of a larger computer c. coordinates the transmission, receipt, and error checking of transmitted data d. operating systems used on personal computers usually support a single user running multiple programs at one time. 8. Single tasking a. Multiprocessing b. Virtual machine C. Multitasking d. If a peripheral device is changed or a hardware device is added to a computer system, a new ____ 9. diagnostic server a. device server b. device driver c. diagnostic driver Compressed files 10, take less room on a disk but require more time to download or upload take less room on a disk and require less time to download or upload take more room on a disk but require less time to download or upload take more room on a disk and require more time to download or upload

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	(节)
11).	Which of the following is <i>not</i> an advantage that a database system offers over a file-oriented system? a. improved data integrity b. increased data redundancy c. improved data security d. reduced development time
12	Connectors such as AND and OR can be used with the relational operation. a. select b. join c. collision d. project
13.	The graphic or written description of the step-by-step procedure is called the a. module b. solution algorithm c. subroutine d. program specification
14.	is a methodology where all program logic is constructed from three control structures. a. Structured design b. Do-while control structure c. Top-down design d. Proper program design
15.	The structure is used when a condition being tested can lead to one of three or more alternatives. a. iteration b. do-while c. do-until d. case
16.	A set of grammar or rules that specifies how instructions in a solution algorithm are to be written is called a. pseudocode b. logic c. syntax d. proper program design
17.	Misspelling a command, leaving out required punctuation, or typing command words out of order generally results in aerror. a. dead code b. logic c. syntax d. debug utility
18.	Assembly language sometimes is referred to as language. a. high-level b. symbolic programming c. third-generation d. natural
19.	 A router is a. a combination of hardware and software that allows users on one network to access the resources on a different type of network. b. a combination of hardware and software used to connect similar networks. c. an intelligent network connecting device that routes communications traffic directly to the appropriate network. d. all of the above.
20.	A pure consists only of point-to-point lines between the central computer and the other computers on the network. a. star network b. bus network c. ring network d. all of the above

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第3頁,共3頁

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二、問答題 60%: 〔※請依題號順序答於答案卷上〕
    Briefly answer the following questions:
16% (a) What is a hyperlink? How are target hyperlinks, relative hyperlinks, and absolute hyperlinks different?
    (b) What is structured design? Describe the three basic control structures used in structured design.
    (c) What is the object-oriented approach to program development? What is a major benefit of the object-oriented approach?
    (d) What is HyperText Markup Language (HTML)? Define a stand-alone HTML editor and an add-on HTML editor.
     Find the error in each of the following C program segments and explain how to correct it:
          printf("%s\n", 'Richard');
10% (a)
          char s[12];
     (b)
          strcpy(s, "Welcome Home"
          printf(%f, 123.456);
     (c)
          char s[10];
          scanf("%c",s[7]);
          union values (
          char w;
           float x;
           double y;
           v = \{1.27\}
      What does the following C program print? (8%)
3.
           #include <stdio.h>
8%
           int mytsery(int, int);
           main ()
           { int x=3, y=5;
                 printf("%d\n", mytsery(x, y) );
                 x = -1; y = 1;
                 printf("%d\n", mytsery(x, y) );
            return 0;
            int mytsery(int a, int b)
            \{ if (b == 1) \}
                                                       3+(3,4) + 3+3+(3.3) +3+3+3+(3,2)
                 return a;
            else
                                                  (3+t)+(6,7) + (9,9) + (1) + (1) + (13,13)
      For the program in problem 3, state the scope (either function scope, file scope, block scope, or function prototype scope) of
 4.
      each of the following elements.
 8%
          The variable x in main.
           The function mytsery.
           The function prototype for mytsery.
           The identifier a in the function prototype for mytsery.
      Write a C function sum_3D that sums the elements in a three-dimensional array using a single pointer to traverse the array.
```

- 6. (a) What would happen in C if you declared the same function twice with different argument types? What would happen in C++?
- 8% (b) Compare and contrast **printf/scanf** style input/output in C with **cout/cin** style <u>stream-oriented</u> input/output in C++.

10% How much faster is this than using three-dimensional subscripting?