

大同大學 九十一 學年度研究所碩士在職專班入學考試試題

考試科目：計算機概論

所別：資訊工程研究所

第 1 頁

註：本次考試 不可以參考自己的書籍及筆記； 不可以使用字典； 不可以使用計算器。

選擇最恰當的單字或片語以補實每一句子。

每答對一題，加1.4分。請依題目順序，將答案A、或B、或C寫在答案本上。

1. The primary attraction(s) of Linux is _____.
A. it can be acquired at no cost
B. it can run on virtually any computer
C. both A and B
2. In Windows 98, the ____ feature lets you browse the Internet and local resources in a similar manner.
A. Universal Serial Bus B. Active Desktop C. GUI
3. In a GUI, you work in the ____ window.
A. active B. biggest C. highlighted
4. Graphical operating systems often let you choose commands from lists, called _____.
A. command lines B. menus C. neither A nor B
5. In a command-line interface(such as DOS), you enter commands at a _____.
A. dialog box B. window C. prompt
6. To remove data from one document and place it in another, you can use the ____ and ____ commands.
A. Cut, Paste B. Copy, Paste C. File, Open
7. When ____, a computer performs two or more procedures at the same time.
A. multitasking B. cooperating C. preempting
8. The term MBps stands for _____.
A. megabits per second B. megabytes per second C. neither A nor B
9. A device's data transfer rate may also be called _____.
A. throughput B. bandwidth C. seek time
10. For storage devices, access times are measured in _____.
A. nanoseconds B. milliseconds C. seconds
11. File compression utilities shrink selected files and save them together in a new file, called a(n) _____.
A. data file B. extraction file C. archive file
12. A(n) ____ hard disk can be inserted and removed while the computer is running.
A. hot-swappable B. cartridge C. optical
13. ____ is the process of creating a duplicate set of programs or data files for safekeeping.
A. Initializing B. Backing up C. Neither A nor B
14. The ____ is a small program that runs when you start the computer.
A. file allocation table B. master boot record C. sector
15. The instruction set for a ____ processor usually contains 200 to 300 instructions.
A. SMP B. CISC C. RISC
16. For personal computers, IDE and SCSI are two common _____.
A. direct access storage controllers
B. floppy disk controllers
C. hard disk controllers

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17. ____ are high-speed memory locations built directly into the CPU.
A. Logic units B. Registers C. Neither A nor B
18. A video controller contains a ____, which frees the CPU from making the calculations required for the display of graphics.
A. cable B. video RAM C. microprocessor
19. A ____ works like an upside-down mouse.
A. trackpad B. trackball C. joystick
20. As you type, the system stores ____ in the keyboard buffer.
A. interrupt requests B. bytetimes C. scan codes
21. A ____ is a less powerful version of a PC, designed especially for use on a network.
A. handheld computer B. cellular phone C. network computer
22. A ____ is an example of a handheld computer.
A. personal digital assistant B. thin client C. neither A nor B
23. A ____ data base is made up of a set of tables where a common field in any two tables creates a relationship between the tables.
A. flat-file B. network C. relational
24. A ____ network places a hub in the center of the network nodes.
A. bus B. ring C. star
25. A ____ is a networking device that stores the addressing information of each computer on each of the LANs it connects.
A. bridge B. router C. server
26. ____ service offers a total of 44.736 Mbps of bandwidth.
A. ISDN B. T1 C. T3
27. The ____ is the Internet tool used to copy files from one computer to another.
A. Usenet B. file transfer protocol (FTP) C. World Wide Web (WWW)
28. Windows Media Player is an example of a(n) ____.
A. HTML converter B. Web browser C. helper application.
29. In newsgroups, a series of related articles and responses is called a ____.
A. Usenet B. thread C. newsreader.
30. If a Web page's URL includes ____, the page is secure.
A. shtml B. https C. either A or B.
31. You can pay for online transactions by using a(n) ____.
A. credit card B. cookie C. SSL connection
32. A ____ image is a grid whose cells are filled with color.
A. workstation B. vector C. bitmap
33. ____ is often licensed for unlimited use.
A. Copy right B. A bitmap C. Clip art.
34. A flie format is ____.
A. always proprietary B. a standardized method of encoding data for storage C. neither A nor B.

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35. A web designer can use ____ to tell a browser to display an image.
A. color depth B. HTML tags C. both A and B.
36. Wending your way through electronic information is called ____.
A. interactivity B. multimedia C. navigation
37. ____ are multimedia technologies to enable students to take classes online.
A. E-commerce Web Sites B. Virtual universities C. CD-ROM encyclopedias
38. The ____ file format is commonly used for full-motion video files.
A. JPEG B. MPEG C. neither A nor B
39. A(n) ____ is a complete event, such as taking an order from a customer.
A. inference B. transaction C. neither A nor B.
40. Management information systems typically produce standardized ____ drawn from an organization's data base.
A. information B. reports C. queries.
41. A well structured IS department understands and supports its organization's ____.
A. managers B. cost centers C. mission
42. ____ think of possible solutions when an information system needs to be updated, modified, or revamped.
A. Systems analysts B. User assistance architects C. CIOs.
43. By using ____, developers can verbally describe the events, actions, and alternative actions that can occur within the system.
A. data flow diagrams B. structured English C. decision tree
44. The process of moving from an old system to a new one is called ____.
A. system design B. implementation C. conversion
45. One goal of ____ is the elimination of goto statements.
A. programming languages B. interpreters C. structured programming
46. A loop repeats until a(n) ____ is met.
A. function B. statement C. exit condition
47. ____ is a simplified text version of a program.
A. Control flow B. Pseudocode C. Neither A nor B
48. Another term for sending junk email messages is
A. spamming B. spoofing C. both A and B
49. ____ is a method of encoding and decoding data.
A. Copy protection B. Encryption C. Log-on
50. ____ is used to represent the syntax of a programming language.
A. FSM B. BNF C. YACC
51. Recursion is the dominant mode of operation in ____ programming paradigm.
A. object-oriented B. logic C. functional
52. ____ paradigm is closely tied to Von Neumann architecture.
A. Parallel programming B. Object-oriented programming C. Imperative programming

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53. ___ language can be regarded as an example of system programming language.
A. FORTRAN B. COBOL C. C
54. ___ can be regarded as an example of logic programming language.
A. JAVA B. LISP C. PROLOG
55. ___ is designed to scan arbitrary text files, extract various kinds of information that is contained within the text, and print reports based on the extracted information.
A. Perl B. SQL C. HTML
56. Virtual reality is _____.
A. a high-resolution three-dimensional graphical simulation B. an object-oriented programming language
C. an 1-teraflop Supercomputer
57. Under multiprogramming, two or more programs are executed _____.
A. asynchronously B. synchronously C. concurrently
58. By using ____, a large program can run on a computer that seems to have insufficient main memory.
A. multiple buffering B. scheduling C. overlays
59. Which of the following statement is true?
A. Host language-based DML is suitable for ad-hoc (casual) users and nonprogrammers.
B. Query languages can be either procedural or nonprocedural .
C. Every user should know the data mapping description kept by the DBMS.
60. The ___ operating system runs on systems that use Intel, Alpha, PowerPC, and other RISC-based processors.
A. Windows NT Workstation B. Windows 9x C. Mac OS

簡答題：請把答案寫在答案本上。

1. Define the essential properties of a server operating system. (2%)
2. List and briefly explain four types of servers that you know. (6%)
3. Determine what is calculated by the following recursive function : (4%)

```
int f(int n)
{ if (n < 0) return f(-n);
  else if (n < 10) return n;
  else return n % 10 + f(n / 10); /* % 是取餘數的運算 */
}
```
4. Write the nonrecursive version of function f of problem 3. (4%)