

大同大學 97 學年度轉學入學考試試題

考試科目: 計算機概論

所別: 資訊經營學系

第 1/1 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。

A. Select the best answer (only one best). 22%

1. The processor also is called the _____. (a) chip (b) adapter card (c) motherboard (d) central processing unit
2. _____ is the process of obtaining a program instruction or data item from memory. (a) Fetching (b) Decoding (c) Executing (d) Storing
3. A _____ controls access to the resources on a network. (a) server (b) workstation (c) client (d) tower
4. The series of input, process, output, and storage sometimes is referred as the _____ cycle. (a) information processing (b) computer programming (c) data entering (d) Web browsing
5. Computer literacy involves having a knowledge and understanding of (a) computer programming (b) computers and their uses (c) computer repair (d) all of the above.
6. A(n) _____ restricts access to specified Web sites. (a) anti-spam program (b) spyware remover (c) Web filter (d) antivirus software
7. _____ is not a step in Web publishing. (a) Planning a Web site (b) Deploying a Web site (c) Creating a Web site (d) Moderating a Web site
8. Use _____, such as :) for smile and :(for frown, to express emotions in e-mail. (a) flames (b) spam (c) spoilers (d) emoticons
9. _____ is the electronic equivalent of a user manual. (a) Online Help (b) Wizards (c) Online banking (d) Distance learning
10. A(n) _____ is a unique number that identifies the location of a byte in memory. (a) register (b) byte (c) address (d) bit
11. _____ is a series of instructions that tells a computer what to do and how to do it. (a) Data (b) A program (c) Online manual (d) A user response
12. A _____ port is an interface that connects devices by transferring more than one bit at a time. (a) serial (b) parallel (c) USB (d) mouse
13. The number of colors a graphics processing unit displays is determined by _____. (a) color bandwidth (b) pixel pitch (c) dot pitch (d) bit depth
14. Printer resolution is measured by the number of _____ a printer can print. (a) pages per minute (b) dots per inch (c) lines per minute (d) pixels per inch
15. _____ storage requires sequential access. (a) DVD (b) Tape (c) Floppy disk (d) Microfilm
16. When an operating system spends much of its time paging, instead of executing application software, it is said to be _____. (a) booting (b) thrashing (c) spooling (d) formatting
17. A _____ is a collection of related records. (a) data character (b) key field (c) data file (d) database
18. _____ information has an age suited to its use. (a) Timely (b) Organized (c) Cost-effective (d) Verifiable
19. A _____ is a malicious-logic program. (a) virus (b) Trojan horse (c) worm (d) all of the above
20. When a computer uses TCP/IP to send data over the Internet, the data is divided into small pieces, or _____. (a) tokens (b) packets (c) hubs (d) nodes
21. To _____ a file means to make a copy of it. (a) inoculate (b) back up (c) quarantine (d) encrypt
22. The encrypted (scrambled) data is called _____. (a) hypertext (b) ciphertext (c) subtext (d) plaintext

B. Write a detailed answer to each of the following questions.

1. What is computer addiction? What are the symptoms of a user with computer addiction? 10%
2. What are the major hardware components of the computer system unit? Why the I/O interface hardware is needed? 10%
3. Explain the purpose of memory management among different memory hierarchy levels used in a computer system. List all the memory hierarchy in most computers. 12%
4. What is the Internet, why the Internet has a tremendous impact on our life? From the Google search engine to the Google cloud computing service, what would you see about Google future? 15%
5. Use 4-bit 2's complement number to compute $4+5$, $6+(-1)$, $(-7)+4$, $(-2)+(-8)$, and use 8-bit 2's complement number to compute $4+5$, $6+(-1)$, $(-7)+4$, $(-2)+(-8)$ again, and check all the errors? 16%
6. For a given data array of n elements, find a solution to reorder the data array in its reverse order using an in-place algorithm. Draw an illustration or write an pseudo program to explain your answer. 15%