

大同大學 102 學年度轉學入學考試試題

考試科目：計算機概論

系別：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. Mark T for True and F for False. 20%

1. Many people believe that computer literacy is not vital to success in today's world.
2. Because embedded computers are components in larger products, they usually are huge hardware.
3. A single government agency owns and controls the Internet.
4. Flames are abusive or insulting messages sent using the Internet.
5. A byte is the smallest unit of data the computer can process.
6. When the computer's power is turned off, nonvolatile memory loses its contents.
7. A printout in landscape orientation is taller than it is wide.
8. A byte is the smallest unit of data the computer can process.
9. The process of writing on an optical disc is called ripping.
10. Linux is open source software, which means its code can be modified and redistributed.

B. Select the best answer (only one best). 30%

1. _____ is/are a collection of unprocessed items, which can include text, numbers, images, audio, and video. (a) Program (b) Instruction (c) Data (d) Information
2. _____ is a system that attempts to imitate the behavior of the human brain (a) memory (b) a neural network (c) E-commerce (d) a kiosk.
3. A(n) _____ is a small version of a larger graphic. (a) MP3 (b) wiki (c) portal (d) thumbnail
4. _____ is the electronic equivalent of a user manual. (a) Web-based training (b) Online Help (c) E-learning (d) CAD
5. The _____ is the component of the processor that directs and coordinates the operations in the computer. (a) control unit (b) ALU (c) register (d) machine cycle
6. The _____ is the main circuit board of the system unit. (a) sound card (b) video card (c) daughterboard (d) motherboard
7. A _____ has a design that reduces the typing speed of a traditional typewriter to prevent mechanical malfunction. (a) gaming keyboard (b) cordless keyboard (c) ergonomic keyboard (d) qwerty keyboard
8. With _____, the computer will detect human motion. (a) an on-screen keyboard (b) an optical mouse (c) a computerized implant (d) gesture recognition
9. _____ is a technology that sends resistance to a device in response to actions of the user. (a) An interactive whiteboard (b) A CRT (c) A dance pad (d) Force feedback
10. A group of two or more integrated hard disks is called a _____. (a) backup (b) disk cache (c) portable disk (d) RAID
11. _____ storage requires sequential access. (a) Microfilm (b) Floppy disk (c) Tape (d) DVD
12. 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
13. A _____ is a Web application that combines services from two or more sources, creating a new application. (a) network topology (b) P2P network (c) Web service (d) mashup
14. A _____ is a malicious-logic program. (a) virus (b) Trojan horse (c) worm (d) all of the above
15. A Web site that uses _____ to secure its data is known as a secure site. (a) hypertext (b) decryption (c) encryption (d) social engineering

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

1. Use 4-bit 2's complement number to compute $4+5$, $6+(-2)$, $(-7)+3$, $(-1)+(-7)$, and check all the possible errors. 10%
2. a. What is the computer software? b. Describe the major categories of computer software. 10%
3. a. What is the Internet? b. What is the difference between an intranet and an extranet? 10%
4. a. What is the netiquette? b. Why the computer netiquette is so important? 10%
5. a. Why the QWERTY keyboard is still used today? b. List ten different computer input devices. 10%