

大同大學 101 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 1/2 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 vital to success in today's world.
2. Because embedded computers are components in larger products, they usually are small hardware.
3. The design of a Von Neumann architecture served as the prototype for subsequent stored program computers worldwide.
4. A single government agency owns and controls the Internet.
5. A Web 2.0 Web site can never allow users to modify Web site content.
6. Flames are abusive or insulting messages.
7. Computer-aided design CAD software is a sophisticated type of application software that assists a professional user in creating engineering, architectural, and scientific designs.
8. An RSS aggregator includes time-stamped articles, or posts, in a journal format, usually in reverse chronological order.
9. A byte is the smallest unit of data the computer can process.
10. When the computer's power is turned off, volatile memory loses its contents.
11. A touchpad is a small, flat, rectangular pointing device that is sensitive to pressure and motion.
12. Resolution is the smallest element in an electronic image.
13. A printout in landscape orientation is taller than it is wide.
14. A multifunction peripheral is also called an all-in-one device.
15. A byte is the smallest unit of data the computer can process.
16. The process of writing on an optical disc is called ripping.
17. Booting is the process of permanently removing a computer from operation.
18. Linux is open source software, which means its code can be modified and redistributed.
19. A Web server is a computer that delivers requested Web pages to your computer.
20. An intranet is an internal network that uses Internet technologies.

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

1. Computer literacy involves having a knowledge and understanding of (a) computer programming (b) computer repair (c) computers and their uses (d) all of the above.
2. _____ is/are a collection of unprocessed items, which can include text, numbers, images, audio, and video. (a) Program (b) Instruction (c) Data (d) Information
3. _____ 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.
4. _____ combines text-based links with graphic, audio, and video links. (a) Hypertext (b) Multi-linking (c) Hypermedia(d) Tabbed browsing
5. _____ is the code of acceptable behaviors users should follow while on the Internet. (a) Post Office Protocol (b) Netiquette (c) The Golden Rule (d) An FAQ
6. A(n) _____ is a small version of a larger graphic. (a) MP3 (b) wiki (c) portal (d) thumbnail
7. _____ is the electronic equivalent of a user manual. (a) Web-based training (b) Online Help (c) E-learning (d) CAD
8. The processor also is called the _____ chip. (a) motherboard (b) CPU (c) adapter (d) RAM
9. 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
10. The _____ is the main circuit board of the system unit. (a) sound card (b) video card (c) daughterboard (d) motherboard
11. 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
12. With _____, the computer will detect human motion. (a) an on-screen keyboard (b) an optical mouse (c) a computerized implant (d) gesture recognition
13. _____ 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
14. A group of two or more integrated hard disks is called a _____. (a) backup (b) disk cache (c) portable disk (d) RAID
15. _____ storage requires sequential access. (a) Microfilm (b) Floppy disk (c) Tape (d) DVD
16. A _____ is a coffeehouse that provides Internet access. (a) hot spot (b) LAN (c) home network (d) cybercafé

<背面繼續>

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第 2/2 頁

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17. 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
18. 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
19. A _____ is a malicious-logic program. (a) virus (b) Trojan horse (c) worm (d) all of the above
20. 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 $3+5$, $6+(-2)$, $(-7)+4$, $(-1)+(-8)$, and use 8-bit 2's complement number to compute $3+5$, $6+(-2)$, $(-7)+4$, $(-1)+(-8)$ again, and check all the possible errors. 10%
2. a. What is computer addiction? b. What are the symptoms of a user with computer addiction? 10%
3. a. What is the netiquette? b. Why the computer netiquette is so important? 10%
4. a. What is the Internet? b. List and explain the functions of five major services of the Internet. 10%
5. a. What is network topology? b. List seven different network topologies, and show their connecting graphs. 10%