

※注意：請於試卷上「選擇題作答區」內依序作答。

選擇題 (單選) 50 題，每題 2 分，共 100 分。答錯不倒扣。

1. ☐ Which of the following software is typically bundled with scanners? (A) MICR (B) OCR (C) OMR (D) IrDA (E) none of the above.
2. ☐ Which of the following new top-level domains is created primarily to overcome the shortage of domain names in business? (A) com (B) busi (C) biz (D) ecom (E) dotcome.
3. ☐ Which of the following is not a valid URL? (A) <http://www.im.ntu.edu.tw/index.htm> (B) <http://www.im.ntu.edu.tw/> (C) <https://www.im.ntu.edu.tw/index.htm> (D) <ftp://www.im.ntu.edu.tw/index.htm> (E) all of the above are valid URLs.
4. ☐ A petabyte (PB) is about _____ bytes. (A) 10^{10} (B) 10^{12} (C) 10^{20} (D) 2^{50} (E) 2^{60} .
5. ☐ A true color refers to representing each pixel with _____ bits. (A) 8 (B) 16 (C) 24 (D) 32 (E) 256.
6. ☐ The sampling rate of a CD-quality audio is at _____ samples per second per channel. (A) 22,050 (B) 44,100 (C) 88,200 (D) 176,400 (E) none of the above.
7. ☐ Current CPUs that dominate the PC market can only address up to _____ of RAM. (A) 4GB (B) 8 GB (C) 16 GB (D) 32 GB (E) 64GB.
8. ☐ High speed memory that is built into CPU for storing temporary instruction and data is called (A) SRAM (B) SDRAM (C) DRAM (D) registers (E) CMOS.
9. ☐ _____ streamlines the machine cycle by executing different stages of multiple instructions at the same time. (A) multithreading (B) hyperthreading (C) pipelining (D) paralleling (E) none of the above.
10. ☐ A _____ is a high performance storage server that is individually connected to a network to provide storage for the computers on the network. (A) SAN (B) NAS (C) RAID (D) Disk Bay (E) Optical Disk.
11. ☐ Which of the following cards is not a flash media format? (A) CompactFlash (CF) (B) Secure Digital (SD) (C) MiniSD (D) MultiMedia (MMC) (E) all of the above are flash media format.
12. ☐ Which of the following file extension is not for storing graphic content? (A) .tif (B) .eps (C) .gif (D) .png (E) all of the above are for graphic content.
13. ☐ Which of the following file extension is not for storing audio content? (A) .au (B) .midi (C) .wma (D) .pcx (E) all of the above are for audio content.
14. ☐ Which of the following technology allows a single program to behave like multiple processes being concurrently executed within the program? (A) multitasking (B) multithreading (C) time-sharing (D) multiprocessing (E) none of the above.
15. ☐ In general, which of the following file formats result in the least compression ratio when compressed? (A) .exe (B) .txt (C) .jpg (D) .bmp (E) .wav
16. ☐ Which of the following is wrong? (A) Freeware is not copyrighted (B) public domain software is not copyrighted (C) public domain software is free of charge (D) you are usually requested to pay a small fee for a regular use of a shareware program (E) all of the above are correct.
17. ☐ A _____ is a group of private, secure paths built over a public communications system (usually the Internet) to allow authorized users, private and secure access to the company network. (A) PAN (B) VPN (C) PNA (D) SSL (E) ISDN.
18. ☐ Which of the following family of networking standards is designed for Wi-Fi? (A) 802 (B) 802.3 (C) 802.15 (D) 802.22 (E) none of the above.
19. ☐ Definitions of table structures, security information, relationships between tables in a database are stored in the (A) data dictionary (B) data integrity table (C) data validation table (D) data organization record (E) none of the above.
20. ☐ In the public key infrastructure, _____ is a trusted third party used to identify which keys belong to whom. (A) Revocation Authority (B) Certificate Authority (C) Identity Authority (D) Security Authority (E) none of the above.

21. ☐ In the public key infrastructure, ____ is used to represent an individual or an organization. (A) digital signature (B) digital name (C) e-passport (D) digital certificate (E) e-ID.
22. ☐ Which of the following about cookie is wrong? (A) cookies can enable a Web site to remember preferences for customized Web site content (B) cookies can retrieve a user's shopping cart items in his previous session (C) cookies can remember a user's login information (D) a Web site usually cannot read cookies of other Web sites (E) all of the above are correct.
23. ☐ Suppose we have a database table Store_Information with the following records:

store_name	Sales	Date
Taipei	\$1000	2-12-2007
Taichung	\$200	2-15-2007
Taipei	\$300	2-16-2007
Kaohsiung	\$700	2-17-2007

If we want to find out the number of distinct stores in the table, which SQL command should we enter:

- (A) SELECT DISTINCT store_name FROM Store_Information
 (B) SELECT COUNT (*) FROM Store_Information
 (C) SELECT COUNT(store_name) FROM Store_Information
 (D) SELECT COUNT(DISTINCT store_name) FROM Store_Information
 (E) none of the above.
24. ☐ Continue from the above question. If we want to find total sales for each store, which SQL command should we enter:
- (A) SELECT store_name, Sales FROM Store_Information GROUP BY store_name
 (B) SELECT store_name, SUM(Sales) FROM Store_Information GROUP BY store_name
 (C) SELECT store_name, SUM(GROUP BY Sales) FROM Store_Information
 (D) SELECT DISTINCT store_name, Sales FROM Store_Information GROUP BY store_name
 (E) none of the above.
25. ☐ Continue from the above question. If we want to see only the stores with total sales over \$500 together with their total sales, which SQL command should we enter:
- (A) SELECT store_name, SUM(sales) FROM Store_Information GROUP BY store_name, SUM(sales) > 500
 (B) SELECT store_name, SUM(sales) FROM Store_Information GROUP BY store_name HAVING SUM(sales) > 500
 (C) SELECT store_name, SUM(sales) FROM Store_Information ORDER BY store_name HAVING SUM(sales) > 500
 (D) SELECT store_name, SUM(sales) FROM Store_Information ORDER BY store_name WHERE SUM(sales) > 500
 (E) none of the above.
26. ☐ The three basic elements in Entity-Relationships Diagrams are (A) Objects, Attributes, Relationships (B) Records, Field, Relationships (C) Entity, Relationships, Fields (D) Table, Entity, Relationships (E) none of the above.
27. ☐ In an ER diagram, which of the following graphical symbols is often used to represent relationship? (A) line (B) oval (C) diamond (D) arc (E) none of the above

28. ☐ _____ is a process for recovering data in a database where the DBMS uses the log to undo any changes made to a database during a certain period, typically when the system encounters some failure. (A) forward recovery (B) checkpointing (C) disaster recovery (D) rollforward (E) none of the above.
29. ☐ Which of the following technology aims to enable the delivery of last mile wireless broadband access as an alternative to cable and DSL, and has a cover range of 30 miles? (A) Wi-Fi (B) WiMAX (C) 3G (D) CDMA (E) none of the above.
30. ☐ The third layer of the OSI protocol stack is (A) session (B) transport (C) IP (D) connection (E) none of the above.
31. ☐ In internetworking and computer network engineering, a series of memoranda encompassing new research, innovations, and methodologies applicable to Internet technologies are placed as (A) Request for Comments (B) Request for Proposals (C) Request for Quotation (D) Request for Information (E) none of the above.
32. ☐ A new technology combined with JavaScript and XML that does not need to reload the entire web page each time the user requests a change, so as to increase the web page's interactivity, speed, and usability: (A) ActiveX (B) PHP (C) DHTML (D) Ajax (E) RSS.
33. ☐ In the system development cycle, the phase that involves reviewing project requests and prioritize them is (A) Analysis (B) Review (C) Planning (D) Survey (E) none of the above.
34. ☐ A tree-like graphical representation specifying conditions and actions for making a decision is (A) balanced scorecard (B) condition tree (C) decision tree (D) decision table (E) state machine.
35. ☐ Java programs are compiled into (A) virtual machine (B) bytecode (C) machine code (D) pseudo code (E) virtual code.
36. ☐ Which of the following file formats is most popularly used in digital libraries to store documents? (A) PostScript (B) Portable Delivery Format (C) Printable Document Format (D) Portable Document Format (E) Printer Command Language.
37. ☐ In the Internet, mapping of domain names and their IP addresses are resolved by (A) domain name system (B) TCP/IP (C) OSI reference model (D) ICANN (E) none of the above.
38. ☐ _____ automates the dynamic assignment of IP addresses, subnet masks, default gateway, and other IP parameters. (A) NIS (B) SIP (C) DHCP (D) DNS (E) none of the above.
39. ☐ Which of the following is wrong? (A) An operating system is a set of programs containing instructions that coordinate all the activities among computer hardware resources (B) an operating system that a computer uses is also called the platform of the computer (C) the core of an operating system is called the kernel (D) application software run on top of operating system (E) all of the above are correct (choose this only if none of the above can be chosen).
40. ☐ A small program that tells the operating system how to communicate with a specific device is (A) device driver (B) spooling (C) plug-in (D) embedded driver (E) none of the above.
41. ☐ In Windows XP, the system configuration information is stored in (A) root directory (B) active X (C) system32 (D) registry (E) boot sector.
42. ☐ Which of the following is wrong? (A) RFID stands for radio frequency identification (B) RFID tag contains an antenna and a memory chip (C) an active RFID tag contains a battery (D) a passive RFID uses the electromagnetic wave transmitted from a tag reader to power the internal chip (E) all of the above are correct (choose this only if none of the above can be chosen).
43. ☐ Which of the following technique is developed to allow content aggregators to distribute frequently updated content to subscribers so that users can easily find new content since the last time he has read? (A) Ajax (B) RSS (C) CSS (D) XHTML (E) RDF.
44. ☐ What kind of virus is typically hidden in a MS word file? (A) Memory Resident (B) spoofing (C) Boot Strap Sector (D) macro (E) Trojan.
45. ☐ The infrastructure of Skype is based on which of the following technology? (A) centralized (B) client-server (C) thin-client (D) P2P (E) ad-hoc networking.
46. ☐ Which of the following is not a Unix/Unix-like operating system? (A) Ubuntu (B) Fedora core (C) FreeBSD (D) Red hat (E) all of the above are Unix families.

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47. ☐ A very famous prediction about how fast (about every 18 months) the number of transistors placed on computer chips would double is (A) Moore's law (B) Intel's law (C) Morgan's Law (D) Einstein's law (E) Weber's law.
48. ☐ A new jargon that refers to embrace the power of the web to harness collective intelligence: (A) Next Generation WWW (B) WWW 2 (C) Web 2.0 (D) Internet 2.0 (E) none of the above.
49. ☐ A Web site that offers a variety of Internet services from a single, convenient location is called a (A) gateway (B) search engine (C) portal (D) Web community (E) application service provider.
50. ☐ MySpace (www.myspace.com) is best characterized as a (A) Blog service (B) portal (C) social networking service (D) file sharing service (E) chat rooms.



試題隨卷繳回