

The Vietnam Student Olympiad in IT – CANTHO UNIVERSITY 2011

English Test

Duration: 30 mins

Test no. 003

True/False

Indicate whether the statement is true or false.

- _____ 1. Researching the benefits and features of the various software tools involves a one-time investment of time and energy.
- _____ 2. Files may be viewed as leaves or nodes on a tree-like structure.
- _____ 3. HTML tags enable the browser to display Web page content in a graphical, easy-to-read format.
- _____ 4. Indexes do not require additional storage space in the database.
- _____ 5. One-to-one relationships are never appropriate.
- _____ 6. The order of the fields does not have to match that of the defined table structure.
- _____ 7. The statement “anArray [2] = 5;” assigns the number five (5) to the third component of anArray.
- _____ 8. A queue is another type of linked list that implements a LIFO storage system.
- _____ 9. The selection sort is highly efficient for large lists.
- _____ 10. An important reason for using a design document is that it can serve as a blueprint.

Multiple Choice

Identify the choice that best completes the statement or answers the question.

- _____ 11. UML or Universal _____ Language diagrams are used to develop object-oriented systems and programs.
 - a. Modeling
 - b. Markup
 - c. Middling
 - d. Master
- _____ 12. File _____ Protocol (or FTP) is a transmission method used to send files across the Internet.
 - a. Task
 - b. Transfer
 - c. Test
 - d. Table
- _____ 13. The _____ is the core of the OS.
 - a. file manager
 - b. scheduler
 - c. GUI
 - d. kernel
- _____ 14. A program that is currently executing is called a _____.
 - a. code segment
 - b. process
 - c. JCL
 - d. regular routine
- _____ 15. Partitioning, _____, and folder creation are all done to prepare a disk to receive files.
 - a. scanning
 - b. formatting
 - c. rebooting
 - d. signaling
- _____ 16. Subnets are defined through the use of a subnet _____.
 - a. filter
 - b. screen
 - c. sentinel
 - d. mask

- ____ 17. The problem of having to remember IP addresses was solved by allowing Web servers to have ____ names.
a. range c. resource
b. locator d. domain
- ____ 18. The port number can be analogized to which of the following address components?
a. street address c. zip code
b. city d. apartment number
- ____ 19. Crawling makes use of a special program called a bot or _____.
a. bug c. spider
b. butterfly d. centipede
- ____ 20. A(n) _____ is a special type of file that occupies its own space and specifies one or more columns that determine how the information stored in a table is organized.
a. field c. tab
b. identifier d. index
- ____ 21. The set of rules that dictates how databases are designed is called _____.
a. normalization c. customization
b. standardization d. invocation
- ____ 22. A _____ key is simply a column or combination of columns that uniquely identifies a row within a table.
a. main c. chief
b. primary d. principal
- ____ 23. Looking at the top item to inspect it without removing it from the stack is called _____.
a. peeking c. scanning
b. snooping d. viewing
- ____ 24. Backtracking is most efficiently accomplished by using a(n) _____.
a. stack c. tree
b. queue d. array
- ____ 25. Which of the following operations removes an item from a stack?
a. pop c. delete
b. remove d. eject
- ____ 26. The _____ sort starts with the last element in the list and compares its value to that of the item just above it in the list order.
a. bubble c. heap
b. insertion d. quick
- ____ 27. Which of the following routines implements two list structures to perform sorting operations?
a. merge sort c. bubble
b. selection sort d. quicksort
- ____ 28. A(n) _____ is a program that reads all statements from a program and converts them into a computer language.
a. event c. compiler
b. object d. control structure
- ____ 29. A(n) _____ is a programming language that resembles more what a computer can understand rather than a human
a. low-level language c. event handler
b. high-level language d. postcondition loop
- ____ 30. _____ determine the functions of the software and any constraints or requirements.
a. Data dictionaries c. Use cases
b. Software specifications d. UMLs
- ____ 31. Testing software to ensure that it meets the software specifications is called _____.
a. scope creep c. rapid prototype
b. software validation d. incremental development

- ____ 32. The ____ is the interface between the testers, developers, and end users during the creation and early release cycles of the product.
- a. project manager
 - b. programmer
 - c. database administrator
 - d. customer relations representative
- ____ 33. The term ____ is used to describe a type of bot that can roam a network looking for vulnerable systems to replicate itself onto those systems.
- a. reverse engineer
 - b. worm
 - c. Trojan horse
 - d. proxy firewall
- ____ 34. A(n) ____ is a software program that allows the user to listen in on network traffic.
- a. Trojan horse
 - b. sniffer
 - c. worm
 - d. honey pot
- ____ 35. ____ attacks seek to create a false impression that an event did not occur when it did, or did occur when it did not.
- a. DMZ
 - b. DoS
 - c. Repudiation
 - d. Modification
- ____ 36. ____ is the illegal copying of software .
- a. Software piracy
 - b. Biometrics
 - c. Social engineering
 - d. Dumpster diving
- ____ 37. A(n) ____ is characterized by three things: targets that might be attacked, agents or attackers, and events.
- a. risk
 - b. callback
 - c. copyright
 - d. threat
- ____ 38. A(n) ____ is a theoretical framework, or a way of doing things.
- a. expert system
 - b. paradigm
 - c. polymer
 - d. MRAM
- ____ 39. ____ is an alliance of educators, students, researchers formed to create new computing paradigms and products enabling people to interact with computers in a more natural and useful way.
- a. Project RAM
 - b. Project Turing
 - c. Project Oxygen
 - d. AI
- ____ 40. ____ is a method of splitting a laser beam and using a device called a spatial light modulator to store full pages of information in layers on a crystal material.
- a. Fuzzy logic
 - b. Pattern recognition
 - c. Holographic storage
 - d. Speech recognition