

科目 計算機概論 類組別 A-4 共 4 頁第 2 頁 *請在試卷答案卷(卡)內作答

11. An Apple II computer has up to 64K bytes of memory. It is a so-called byte-addressable machine, meaning each byte has its own address. How many bits do we need for each memory address?
(1) 8 (2) 16 (3) 65536 (4) 524288
12. Which of the following techniques can relieve processors from transferring from/to memory?
(1) DMA (2) interrupt I/O (3) memory-mapped I/O (4) I/O polling
13. What is the 8-bit 2's complement representation of -2?
(1) (00000010)₂ (2) (10000010)₂ (3) (11111110)₂ (4) (11111101)₂
14. What decimal number does the hexadecimal number 0A8h mean?
(1) 168 (2) 184 (3) 108 (4) 1680
15. Transferring the infix expression $(A-B)/(A+C)-C*D$ to the postfix expression, we get
(1) $A-B/A+C-C*D$ (2) $AB-/AC+-CD*$ (3) $AB-AC+CD*/-$ (4) $AB-AC+/CD*-$
16. Which of the following Internet software layers deals with the actual communication details?
(1) transport layer (2) link layer (3) application layer (4) network layer.
17. Which of the following statements is false?
(1) A router is a machine connecting two networks that use the same internet protocols.
(2) A URL is the address of a document in the World Wide Web.
(3) HTML is a text containing words or images that are linked to other texts in a manner that allows a reader to move between related material.
(4) A name server is a process who's task is to provide assistance in converting mnemonic names into IP addresses.
18. Which of the following does not belong to the stages in the development phase of the software life cycle?
(1) analysis (2) design (3) implementation (4) optimization.
19. Which of the following statements is false for the Turing machine?
(1) A problem that cannot be solved by a Turing machine cannot be solved by any algorithmic system.
(2) Turing machine is a conceptual device rather than an actual machine.
(3) A halting problem is unsolvable by any Turing machine.
(4) An NP problem is unsolvable by any Turing machine.
20. Which of the following statements is true for time complexity?
(1) A polynomial time solution to a problem is always better than an exponential time solution.
(2) A problem that has a polynomial time solution can always be solved in a practical amount of time.
(3) A polynomial problem is also an NP problem.
(4) A non-polynomial problem is called an NP problem.