

臺灣綜合大學系統 107 學年度學士班轉學生聯合招生考試試題

科目名稱	計算機概論	類組代碼	A13、D17
		科目碼	A1301
※本項考試依簡章規定各考科均「不可以」使用計算機		本科試題共計 5 頁	
<p>一、選擇題(每題 2.5 分) 請於答案卡上作答，否則不予計分</p> <p>1. The _____ model is the basis for today's computers. A. von Neumann B. Charles Babbage C. Leibnitz D. Pascal</p> <p>2. A step-by-step solution to a problem is called _____. A. an operating system B. an algorithm C. hardware D. a computer language</p> <p>3. For an 8-bit allocation, the smallest decimal number that can be represented in two's complement form is _____. A. -127 B. -128 C. -256 D. -8</p> <p>4. A register in a CPU can hold _____. A. only data B. data, instruction, or program counter values C. only instructions D. only program counter values</p> <p>5. The smallest storage area on a magnetic disk that can be accessed at one time is a _____. A. track B. head C. sector D. frame</p> <p>6. A stack is a _____ structure. A. FIFO B. SIFO C. LIFO D. DIFO</p> <p>7. Which physical topology uses a hub or switch? A. star B. bus C. ring D. bus and ring</p> <p>8. To prevent _____, an operating system can put resource restrictions on processes. A. paging B. synchronization C. deadlock D. starvation</p> <p>9. _____ is a basic algorithm in which we want to find the location of a target in a list of items. A. Product B. Searching C. Sorting D. Summation</p>			

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10. C, C++, and Java can be classified as _____ languages.
 - A. high-level
 - B. natural
 - C. machine
 - D. symbolic
11. The pop operation _____ of the stack.
 - A. deletes an item from the top
 - B. inserts an item at the bottom
 - C. deletes an item from the bottom
 - D. inserts an item at the top
12. We use a _____ search for an ordered list.
 - A. bubble
 - B. binary
 - C. sequential
 - D. insertion
13. _____ is multi-programming without swapping.
 - A. Demand paging
 - B. Virtual memory
 - C. Queuing
 - D. Partitioning
14. The _____ layer of the TCP/IP protocol suite is responsible for source-to-destination delivery of the entire message.
 - A. data-link
 - B. transport
 - C. network
 - D. session
15. The data in _____ is erased if the computer is powered down.
 - A. RAM
 - B. a CD-ROM
 - C. ROM
 - D. a tape drive
16. _____ is a stand-alone storage location that holds data temporarily.
 - A. An ALU
 - B. A tape drive
 - C. A register
 - D. A control unit
17. For the binary _____ operator, if the input is two 0's, the output is 0.
 - A. Only OR
 - B. Only XOR
 - C. AND, OR, or XOR
 - D. Only AND
18. Which of the following representations is erroneous?
 - A. $(EF)_{16}$
 - B. $(110)_2$
 - C. $(141)_8$
 - D. 22A

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<p>19. The _____ is a computer subsystem that performs operations on data.</p> <p>A. CPU B. bus subsystem C. memory D. I/O hardware</p> <p>20. _____ is a program that facilitates the execution of other programs.</p> <p>A. A queue B. Hardware C. An application program D. An operating system</p> <p>21. _____ is a pictorial representation of an algorithm.</p> <p>A. Pseudocode B. A program C. A UML diagram D. An algorithm</p> <p>22. _____ is a process in which an algorithm calls itself.</p> <p>A. Recursion B. Searching C. Insertion D. Iteration</p> <p>23. The push operation _____ of the stack.</p> <p>A. deletes an item from the top B. inserts an item at the bottom C. deletes an item from the bottom D. inserts an item at the top</p> <p>24. _____ is a basic algorithm that arranges data according to its value.</p> <p>A. Searching B. Sorting C. Inquiry D. Recursion</p> <p>25. The _____ layer of the TCP/IP protocol suite provides services for end users.</p> <p>A. application B. data-link C. transport D. physical</p> <p>26. _____ is a memory type with capacitors that need to be refreshed periodically.</p> <p>A. SRAM B. CROM C. DRAM D. ROM</p> <p>27. _____ is a logical bit operator.</p> <p>A. The unary NOT B. The binary AND C. exclusive OR, unary NOT, or binary AND D. The exclusive OR</p> <p>28. In a computer, the _____ subsystem stores data and programs.</p> <p>A. input/output B. control unit C. ALU D. memory</p>			

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<p>29. In a set of 64 symbols, each symbol requires a bit pattern length of _____ bits.</p> <p>A. 5 B. 4 C. 6 D. 7</p> <p>30. If the memory address space is 16 MB and the word size is 8 bits, then _____ bits are needed to access each word.</p> <p>A. 8 B. 32 C. 16 D. 24</p> <p>31. The three steps in the running of a program on a computer are performed in the specific order _____.</p> <p>A. fetch, execute, and decode B. decode, fetch, and execute C. decode, execute, and fetch D. fetch, decode, and execute</p> <p>32. In _____, the program can be divided into equally sized sections called pages, but the pages need not be in memory at the same time for execution.</p> <p>A. demand paging B. paging C. demand segmentation D. partitioning</p> <p>33. _____ is a measure of how tightly two modules are bound to each other.</p> <p>A. Interoperability B. Cohesion C. Coupling D. Modularity</p> <p>34. In _____ sort, the smallest item from the unsorted list is swapped with the item at the beginning of the unsorted list.</p> <p>A. insertion B. bubble C. selection D. every</p> <p>35. Multi-programming requires a _____ operating-system.</p> <p>A. parallel B. time-sharing C. distributed D. batch</p> <p>36. Which of the following is equivalent to 24 in decimal?</p> <p>A. $(31)_8$ B. $(11000)_2$ C. $(1A)_{16}$ D. None of the above</p> <p>37. _____ is a protocol for accessing and transferring documents on the WWW.</p> <p>A. TELNET B. FTP C. SMTP D. HTTP</p>			

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38. The _____ statement repeats one or more actions.
- A. decrement
 - B. loop
 - C. increment
 - D. complement
39. We use a bit pattern called a _____ to modify another bit pattern.
- A. carry
 - B. float
 - C. byte
 - D. mask
40. In a linked list, each element contains _____.
- A. only data
 - B. data and a link
 - C. only a link
 - D. neither data nor a link