國立中央大學96學年度碩士班考試入學試題卷 #_9_頁 第_/_頁

所別:<u>企業管理學系碩士班企業電子化組(庚組)</u> 科目:<u>計算機概論 (辛組)</u>

每起2分,艾100分

1. When converting a decimal number to binary, you repeatedly divide it by
a. 2
b. 8
c. 10
d. 16
2. The only digits used in the number system are 0 and 1.
a. decimal
b. octal
c. binary
d. hexadecimal
3. Which of the following is an integer representation method that handles both
positive and negative numbers?
a. sign-and-magnitude
b. one's complement
c. two's complement
d. all fo the above
4. Which of the following can be classified as data?
a. numbers
b. video
c. audio
d. all of the above
5 is a 16-bit code that can represent symbols in languages other than
English
a. ASCII
b. Extended ASCII
c. EBCDIC
d. Unicode
6. In the graphic method of representing an image in a computer, each pixel
is assigned one or more bit patterns.
a. bitmap
b. vector
c. quantized
d. binary
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7. The binary operator takes tw	0 inputs to produce one output
a. AND	The so produce one output.
b. OR	
c. XOR	
d. All of the above	
8. To flip all the bits of a bit pattern, ma	ke a mask of all 1s and then the bit
pattern and the mask.	
a. AND	•
b. OR	
c. XOR	
d. NOT	
9. In two's complement representation v	vith a 4-bit allocation, you get when
add 1 to 7.	when
a. 8	
b. 1	
c7	
d8	
^	
10 is a stand-alone storage lo	cation that holds data temporarily
a. An ALU	and temporarry.
b. A register	
c. A control unit	
d. A tape drive	
11 ia a manuari dei 121	
a. SRAM	acitors that need to be refreshed periodically.
b. DRAM	
c. ROM	
d. All of the above	
a. All of the above	
12. If the word size is 2 bytes, a data bus	with wires is needed.
a. 2	•
b. 4	
2.8	
d. 16	
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13. A is a set of rules that controls the interaction of different devices in a
network or internetwork.
a. model
b. protocol
c. dialog
d. synchronization point
14. The OSI model has layers
a. five
b. six
c. seven
d. any of the above
is a protocol for accessing and transferring documents on the WWW. a. FTP
b. SMTP
c. TELNET
d. HTTP
16 supervises the activity of each component in a computer system.
a. An operating system
b. Hardware
c. A queue
d. An application program
17. A process in a ready state goes to the running state when
a. it enters memory
b. it requests I/O
c. it gets access to the CPU
d. it finishes running
18. Multiprogramming requires a operating system
a. batch
b. time-sharing
c. parallel
d. distribution

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is a process in which an algorithm calls itself.
a. Insertion
b. Searching
c. Recursion
d. Iteration
20. In sort, the items are divided into two lists: sorted and unsorted.
a. selection
b. bubble
c. insertion
d. all of the above
21. In sort, the item that goes to the sorted list is always the first item in the
unsorted list
a. selection
b. bubble
c. insertion
d. all of the above
22. The only language understood by computer hardware is alanguage
a. machine
b. symbolic
c. high level
d. natural
23. The compiler consists of a and a
a. preprocessor, loader
b. text editor, loader
c. preprocessor, translator
d. linker, preprocessor
24. In an OO language, is the hiding of data and operations from the user.
a. encapsulation
b. inheritance
c. polymorphism
d. modularity

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25. One phase in the system development is a. analysis b. testing c. design
d. all of the above
26. Code reusability, interoperatbility, and portability are factors important to the of software a. operability b. maintainability c. transferability d. longevity
27. Testing a software package can involvetesting. a. black box b. white box c. breakbox d. a and b
28is a fixed-size, sequenced collection of elements of the same data type. a. An array b. A record c. A linked list d. A variable
is an ordered collection of data in which each element contains the ocation of the next element. An array A record A linked list A node
0. All the members of a record must be the same type related types integer type character type

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31. A(n) list is also known as a stack.
a. LIFO
b. FIFO
c. unordered
d. ordered
20.70
32 If there are 16 nodes to be stored in a binary tree, the minimum height of the tree is
a. 16
b. 5
c. 4
d. 1
33. In a preorder traversal, the is processed first.
a. left subtree
b. right subtree
c. root
d. a or b
34 file can be accessed randomly
a. A sequential
b. An indexed
c. A hashed
d. b and c
35 When a ball and a second se
35. When a hashing algorithm produces an address for an insertion key and the
address is already occupied, it is called a a. collision
b. probe
c. synonym
d. linked list
di tiliked 11st
36. An index file consists of
a. a sequential data file
b. an index
c. a random data file
t hand o

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37. Of the various database models, the model is the most prevalent today.
a. hierarchical
b. network
c. relational
d. linked list
38. The operations that takes two relations and combines them based on common
attributes is theoperation
a. join
b. project
c. union
d. intersection
39. Each row in a relation is called
a. an attribute
b. a tuple
c. a union
d. an attitude
40. In encoding, the more frequently occurring characters have shorter code than the less frequently occurring characters.
a. Huffman
b. run-length
c. LZ
d. all of the above
41. In JPEG encoding, the process breaks the original picture into
smaller blocks and assigns a value to each pixel in a block.
a. blocking
b. DCT
c. quantization
d. vectorization
42. In encoding, PPPPPPPPPPPPP can be replaced by P15.
a. Huffman
b. run-length
c. LZ
d. all of the above

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43. In encryption/decryption, key is known by everyone.	
a. secret	
b. private	
e. public	
d. skeleton	
\mathcal{N}_{i} , \mathcal{N}_{i}	
44. In the secrete key method of encryption and decryption, possession	
of the secrete key.	
a. only the sender has	
b. only the receiver has	
c. both the sender and the receiver have	
d. the general public has	
45. In a digital signature method, the sender uses his or her key to	
encrypt the message.	
a. public	
b. private	
c secret	
d. skeleton	
46. A Turing machine has these components:	
a. tape, memory, and read/writhe head	
b. disk, controller, and read/write head	
c. tape, controller, and read/write head	
d. disk, memory, and controller	
47. The complexity of a program is O(log ₁₀ n) and the computer executes 1 million	
instructions per second. How long does it take to run the program if the number of	
inputs is 10,000?	
a. 1 microsecond	
p. 2 microseconds	
c. 3 microseconds	
l. 4 microseconds	

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48. The Gödel number is	number assigned to a program in a specific
language.	
a. a binary	
b. an integer	
c. a real	
d. a signed	
49. In the von Neumann model, the	subsystem accepts data and programs
and sends processing results to output de	vices.
a. ALU	•
b. input/output	
c. memory	
d. control unit	
50 is a set of instructions in a	computer language that tells the computer
what to do with data.	
a. An operating system	
b. An algorithm	
c. A data processor	
d. A program	