## 國立臺灣大學99學年度轉學生招生考試試題

題號: 48

科目:計算機概論(A)

題號: 48

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※ 注意	意:請於答案	卷內之「選擇	題作答區」依序作	:答。	
1. Which of the	following bit patt	ems represents the v	alue 5 in two's complem	ent notation?	
A. 00011					
2. Which of the	following represe	ntations in two's con	nplement notation repres	ents the largest value	
A. 000000	010 B. 11111	C. 0000000	1 D. 11111110		
3. How many d	ifferent symbols ca	an be encoded using	Unicode?		
A. 256	B. 4,096	C. 65,536	D. 1,046,476		
4. Which of the	following is a me	ans of encoding mus	ic?		
A. ASCII	B. MIDI C. J	PEG D. GIF	事		
5 Which of the	following is not c	ontained in a CPU?	Y.		
	tion register	B. Program counte			
	l-purpose register			n a	
O. Genera	r purpose register	15. Welliof y cell		對回	
6. Which of the	following instruct	ions does not fall in	the category of arithmetic	c/logic instructions?	
A. ROTA					
7. Which of the	following is not a	n activity performed	entirely within a CPU?	IN'S	
	A. Fetch instructions		B. Perform Boolean operations		
C. Perform arithmetic operations		tions D. Mo	D. Move data between registers		
8. Which of the	following items of	f information would	not be contained in an op	perating system's	
process table?			-	0 ,	
A. The loc	ation of the memo	ory area assigned to	the process		
B. The pri	ority of each proce	ess			
C. Whethe	r the process is re	ady or waiting		31	
D. The ma	chine language in	structions being exec	cuted by the process		
9. Which of the	following is a tech	nique for controlling	g access to a critical regio	on?	
A. Spoolin	g B. Time sł	naring C. Sen	naphore D. Boot	ting	
10. Which of the	following is not i	nvolved in a context	switch?		

# 見背面

C. Dispatcher

A. Interrupt

B. Process table

D. Shell

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	11. Which of the following is a task that is not performed by the kernel of an operating system?	?					
	A. Communicate with the user B. Schedule processes		. *				
	C. Allocate resources D. Avoid deadlock						
	12. Which of the following is not a way of classifying networks?						
	A. WAN versus LAN  B. Closed versus open						
	C. Router versus bridge D. Star versus bus						
	13. Which of the following is used to translate between IP addresses and mnemonic addresses?						
	A. File server B. Mail server C. Name server D. FTP server						
	14. The insertion sort algorithm is an example of an algorithm in which of the following classe:	s?					
	A. $\Theta(\lg n)$ B. $\Theta(n)$ C. $\Theta(n \lg n)$ D. $\Theta(n^2)$	5.00.					
	15. Which of the following is an example of a language that is based on the functional paradigr	n?					
	A. LISP B. PROLOG C. C D. C++						
	16. Which of the following is not a control statement?						
	A. If-then-else statement  B. While loop statement						
	C. Assignment statement D. For loop statement						
	17. Which of the following is not associated with object-oriented programming?						
	A. Inheritance B. Resolution C. Encapsulation D. Polymorphism						
	拳 . 摩						
	18. Which of the following is not a possible value of the expression $4 + 6 \div 2 - 1$						
	A. 4 B. 5 C. 6 D. 10						
	19. Which of the following is not a feature of UML?						
	A. Use case diagrams  B. Class diagrams						
	C. Dataflow diagrams  D. Sequence diagrams						
	20. The Pareto principle is traditionally applied during which phase of software development?						
	A. Analysis B. Design C. Implementation D. Testing						
	A. Analysis B. Swigh C. Importantial B. Fosting						
	21. Which of the following is a LIFO structure?						
	A CONTRACTOR OF THE CONTRACTOR						

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22. If a queue contained the entries w, x, y, z (from head to tail), which of the following would be the contents after two entries were removed and the entry r was inserted?

A. w, x, r B. y, z, r

C. r, y, z

D. r, w, x

23. Given the relation X below

X:	A	В	C
	2	5	7
	3	3	3
	4	3	2
	5	2	8

what value will be extracted by the following query?

TEMP ← SELECT from X where B > C RESULT + PROJECT A from TEMP C. 4

A. 2

B. 3

D. 5

24. Which of the following features within a DBMS is not provided to maintain database integrity?

A. Concurrent transaction processing

B. Log

C. Locking protocol

D. Commit points

25. If the longest path in a binary tree contained exactly four nodes, what is the maximum number of nodes that could be in the entire tree?

A. 4

B. 7

C. 15

D. 31

試題隨卷繳回