

## 國立雲林科技大學

97.學年度碩士班入學招生考試試題

系所: 資管系

了[<u>]</u> 科目:計算機槪論(乙)

## . 第一部分

- 一、簡答題(每題3分,共30分)。
- 1. 設計程式主要利用哪些控制結構來完成?
- 2. 試舉出兩種 VB、JAVA 及 C++ 等程式語言皆有提供呼叫函數(Function)或方法 (Method) 時傳參數的方法?
- 3. 有哪些網頁程式設計方法可以同時使用在Windows 及Unix(Linux)作業系統上的?
- 4. 試舉出雨種較簡單的 CPU 排程(Scheduling)方法?
- 5. 動態分頁虛擬記憶體理的淘汰策略有哪些?
- 6. 在結構化系統分析中,實體關係圖(ERD)及資料流程圖(DFD)主要的作用為何?
- 7. 在統一塑模語言(UML)中,有哪些圖形(Diagram)是使用在行為模塑觀點(Behavioral Model View)上的?
- 8. 試舉出兩種在 Windows 作業系統的 DOS 模式下可以有效的來偵測網路故障的指令?
- 9. 試舉出兩種需要利用 Aajx 技術才可以達成的網頁程式應用?
- 10. 在公開金鑰加密(Public Key Encryption)的方法中,使用者 A 要送加密的 Email 给使用者 B 時,該用哪一把金鑰(Key)加密呢?另外,使用者 A 要數位 簽章某份給使用者 B 的文件,此時又該用哪一把金鑰(Key)加密呢?
- 二、試比較分析個人電腦、個人數位助理(PDA)及手機等設備,在硬體與軟體方面有何異同之處。 (10%)
- 三、試分別利用遞迴(recursion)與非遞迴(non-recursion)方式,寫出輸入一串字串並顛倒(reverse)印出此字串之演算法。例如,輸入為"computer"輸出為"retupmoc"。(10%)

## 第二部分(單選題,每題2分,共50分)

- 1. Which one of the followings is not an advantage of the DBMS approach?
  - A. Restricting unauthorized access
  - B. Providing storage for efficient query processing
  - C. Prolonged application development time
  - D. Providing backup and recovery
- 2. Which one of the followings does access path belong to?
  - A. Physical data model
- B. Implementation data model
- C. High-level data model
- D. Conceptual data model

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科目:計算機概論(乙)

3.	data A. B. C.	Which one of the followings is the correct sequence (from beginning to end) of database design phases?  A. Physical design, conceptual design, logical design  B. Logical design, conceptual design, physical design  C. Conceptual design, logical design, physical design  D. Physical design, logical design, conceptual design									
4.	sup A.		class	relationship wi		ore th	case in which a can one superclassing gory ce	_	e		
5.	A.	Which one of the followings specifically and the semantic integrity constraint C. Referential integrity constraint				ne non-null of primary key?  B. Domain constraints  D. Entity integrity constraint					
6.	alge	ebra operati	ons?			mbe	r of the comple	te set	of relational minus		
	Wh the A.	A. join B. select C. project D. minus  Which one of the followings, when performing ER-to-relational mapping, does he ER model construct multi-valued attribute map to?  A. attribute B. domain  C. relation and foreign key D. primary key									
8.				llowings is <i>not</i> CNT			aggregate func X	tion i D.	n SQL? SUM		
9.	Which one of the followings embeds SQL commands in a general-purposed programming language?										
				SQLPLUS					SQLJ		
10.		What normal form is a relation schema $R$ in, if whenever a nontrivial functional dependency $X \rightarrow Y$ holds in $R$ , then $X$ is a superkey in $R$ ?									
	-	•			C.			D.	1NF		
11.	Which one of the followings is <i>not</i> a desirable property of relational decompositions?										
	A.	Dependent Key preser	cy pro	_			ibute preservin sless join	g			
12. Which one of the followings is <i>not</i> a criterion in guiding the choice of platabase design options?											
	A. Response time					Software acquisition cost Transaction throughput					
		Space utili						-			
13.	A.	ich one of t Linear has Sorted file	hing	•	B.	Clus	cient in insertin stered file p file	g a ne	ew record?		
14.	Wh		he fo		a sin B.	gle-le Prin	evel ordered in nary index ondary index	dex?			

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15.	A.	ich one of the followings is no. Atomicity Interconnection	В.	operty of database to Consistency present Durability	ransa rvatic	ctions? on				
16.	What is the ability of objects belonging to different data types to respond to method calls of methods of the same name, each one according to an appropriate type-specific behavior?									
		abstraction encapsulation	B. D.	polymorphism inheritance						
17.	A.	at is the language that can be accontext-free language recursive language		ed by a finite state no recursively enumer regular language	rable					
18.	Whi	ich one of the followings is a m J2ME B. J2XE	_			J2SE				
19.	that A.	ich one of the followings is use any instruction can use data of Extendible instruction set Orthogonal instruction set	any B.	type via any address Universal instruction	sing r	node?				
	A. B. C.	ch one of the followings is not Availability of reversion mode Single point of failure Fault isolation to the failing co Fault containment to prevent p	mpo	nent		tolerance?				
	Let $P_1$ and $P_2$ be two program fragments. Let $I_1$ be all of the input variables to $P_1$ and $O_1$ the output variables; let $I_2$ be all of the input variables to $P_2$ and $O_2$ the output variables. Which one of the followings is <i>not</i> a pre-condition for $P_1$ and $P_2$ to be executed in parallel?									
		$I_1 \cap O_2 = \emptyset$ $I_2 \cap O_1 = \emptyset$		$O_1 \cap O_2 = \emptyset$ $I_1 \cap I_2 = \emptyset$						
	prog	ch one of the followings forms ramming languages? Lambda calculus		pasis of almost all fu Relational calculus		nal				
	C.	Stochastic calculus	D.	Vector calculus						
	shar	ch one of the followings is not ed memory communications? mutex B. semaphore			nte be	tween threads is monitor				
	docu	ch one of the followings, in informents retrieved that are releva	nt to	the user's information	on ne	ed?				
25.	Whie text:		hase?	in compilation, brea	_	fall-out  e source code				
	<b>.</b>	Semantic analysis	IJ.	Lexical analysis						