## 國立彰化師範大學103學年度碩士班招生考試試題

系所: 資訊管理學系、

資訊管理學系數位內容科技與管理碩士班

科目: 計算機概論

☆☆請在答案紙上作答☆☆

共2頁,第1頁

1(A	題(40%,每 is a lossles	題 4%)					
(A	is a lossles						
,		s compression n	nethod for pic	tures and grap	hics.		
	A) SVG	(B) PNG	(C) ]	MP3	(D) MPEG	(E) MP4	
2. W	hat is the messa	nge 0111010001	111 using the	Huffman code	e {A:0 B:10 C:1	1}?	
(A	A) ACBBAACC	(	B) ACBBAA	СВ	(C) BCBBAACC		
(D	O) ACBBABCC	(	E) ACBBAC	CC			
3. A	32-bit code call	led repre	esents symbol	ls in all langua	ges.		
(A	A) ASCII	(B) Unicod	le (C)	EBCDIC	(D) BIG5	(E) GB2312	
4. Th	ne decimal num	ber 24.75 is equ	al to the binar	ry number	·		
(A	A) (11000.01) <sub>2</sub>	(B) (11001	(C)	$(11000.11)_2$	(D) (10000.01) <sub>2</sub>	(E) (11010.11) <sub>2</sub>	
5. Th	ne octal number	$(365)_8$ is equal	to the hexade	cimal number	·		
(A	A) (F5) <sub>16</sub>	$(B) (F6)_{16}$	(C)	$(F4)_{16}$	(D) (E6) <sub>16</sub>	$(E) (A5)_{16}$	
6. A	process in the r	eady state goes	to the running	g state when	·		
(A	A) it enters mem	ory (B) it	gets access to	the CPU	(C) it requests I/O		
(D	O) it's I/O is sati	sfied (E) it'	s time slot ex	hausted			
7. Th	ne 8-bit 2's com	plement number	r 10000000 is	equal to the d	ecimal number		
(A	A) -127	(B) -128 (	C) 127	(D) 128	(E) none of the abo	ove	
8. Th	ne CPU is made	up of three part	s: the control	unit, the	_, and a set of regist	ers.	
(A	A) RAM	(B) ROM (	C) ALU	(D) CD	(E) DMA		
9. W	Which device converts images and sends them to the same kind of device over a telephone line?						
(A	A) fax	(B) scanner (	C) mouse	(D) printer	(E) digital camera		
10 4	system i	s expected to do	a task within	specific time	constraint.		
10. A		(B) distributed	(C) time-	sharing	(D) real-time	(E) batch	

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共2頁,第2頁

=	、問	<b>月答題</b> (10%)
	1.	A binary tree has 8 nodes. The preorder and inorder traversal of the tree are shown below. (5%)
		Preorder traversal: GBFHDACE Inorder traversal: FHBDGCAE
		Please draw the tree.
	2.	How many times the foo() function in the following C++ code segment is executed: (5%)
		for(int $i = 1$ ; $i < 10$ ; $i++$ )
		{
		foo();
		i = i + (i%2);
		}
三	、埠	<b>草空題(30%,每格3%)</b>
	1.	SDLC (in Systems Analysis and Design) stands for life cycle
	2.	3NF (in Database) stands for third
	3.	E-R Diagram (in Database) stands for diagram
	4.	UML (in Object-oriented Analysis and Modeling) stands for Language
	5.	SCM (in Management Information Systems) stands for management
四	、名	<b>名詞解釋。請分別解釋以下名詞,並說明它們能為企業組織帶來哪些好處與優勢。</b>
	1.	Enterprise resource planning system (10%)
	2.	Virtual private network (10%)