國立彰化師範大學100學年度碩士班招生考試試題

系所: 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

 單選題(40%	,每題 4%)

1.	is a technology used to improve parallelization of computations performed on Intel
	Core processors. It can use processor resources more efficiently, enabling multiple threads to run on
	each core.
	(A)RISC (B) Hyper-link (C) Hyper-threading (D) Virtual memory (E) Multi-touch
2.	is a mobile operating system used by Apple.
	(A) Android (B) Linux (C) Windows 7 (D) iPad (E) iOS
3.	A system consists of multiple autonomous computers communicating through a network
	and interacting with each other to achieve a common goal.
	(A) distributed (B) networked (C) centralized (D) peer-to-peer (E) hierarchical
4.	is a game console that uses body gesture to provide controller-free gaming and
	entertainment experience.
	(A) Wii (B) NDS (C) PSP (D) Kinect (E)None of the above
5.	Several modern runtime environments such as Microsoft's .NET Framework and most
	implementations of Java use to improve code execution.
	(A) direct interpretation (B) just-in-time compilation (C) static translation (D) dynamic linking (E)
	None of the above.
6.	is a widely implemented cross-platform API for mobile 3D graphics.
	(A) DirectX (B) OpenGL ES (C) X3D (D) OpenAL (E) None of the above
7.	uses demand paging or demand segmentation technique to run a program that is not
	entirely in the main memory.
	(A) Multi-tasking (B) Bootstrap (C) Virtual Memory (D) DMA (E) None of the above
8.	is a scripting language for creating dynamic Web pages.
	(A) XML (B) WML (C) HTML (D) PHP (E) All of the above
9.	describes computation, software, data access, and storage services that do not require
	end-user knowledge of the physical location and configuration of the system that delivers the services.
	(A) ERP (B) E-Commerce (C) Web Computing (D) CRM (E) Cloud Computing
10	. In the von Neuman model, the subsystem stores data and program.
	(A) memory (B) input/output (C) ALU (D) control unit (E) None of the above.
<i>–</i>	. 寫出底下專有名詞的英文全名(20%, 每題 5%)
1.	DNS (in Internet) stands for
2.	XML (in Web Technology) stands for
3.I	RAM (in Computer) stands for
4.I	LAN (in Network) stands for

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E. Problems (40%)	
1) Show the result of the following operations assuming that the num complement representation. Let $A = (CD)_{16}$, $B = (17)_{16}$. Compute	
A = ($)_{2}$
$\mathbf{B} = (0 \ 0 \ 0 \ 1 \ 0 \ 1 \ 1 \ 1 \)_2 -\mathbf{B} = ($	$)_2$
A+(-B) = ()_2
<pre>// for example, sum(1234) returns 10 and sum(12345) returns 15. public static int sum(int n){ // assume n is positive integer if(n < 10){ return; } return; public static void main(String[] args) { Date d = new Date(); System.out.println(FunnyMath.sum(12345)); // print }</pre>	;
3) Heap and stack are commonly used in JAVA and C++ to store data Explain both heap and stack using the above program. (10%)	a in memory for a running program
 4) C++, JAVA and C# are popular programming languages currently. Which one is best suited for Web-based applications and why? (10) 	