## 國立彰化師範大學 102 學年度 碩士班招生考試試題

系所: <u>資訊管理學系</u> 科目: <u>計算機概論</u> ☆☆請在答案紙上作答☆☆ 共2頁,第1頁

<b>—</b> 、	、單選題(40%, 每題 4%)
1.	provides technology that uses the public Internet backbone as a channel for private data
	communication
	(A) ISDN (B) DSL (C) VPN (D) E-Commerce (E) All of the above
2.	If the memory address space is 2 TB and the word size is 64 bits, then bits are needed to
	address each word.
	(A) 36 (B) 38 (C) 32 (D) 34 (E) 30
3.	Which of the following number systems is erroneous?
	(A) $(123)_{10}$ (B) $(80)_8$ (C) $(ABC)_{16}$ (D) $(10)_2$ (E) $(10)_8$
4.	The CPU performance of modern computers can be improved by using the technique.
	(A) e-mail (B) USB (C) pipelining (D) XML (E) SCSI
5.	The of a magnetic disk defines the time to move the read/write head to the desire track.
	(A) rotational speed (B) seek time (C) transfer time (D) sector (E) track
6.	, an intermediate language, is a form of instruction set designed for efficient execution by a
	software interpreter.
	(A) Machine code (B) Script (C) Bytecode (D) Flash (E) None of the above
7.	The main disadvantages of a topology are related to the amount of cabling and the number of
	I/O ports required.
	(A) star (B) ring (C) mesh (D) bus (E) none of the above
8.	The layer of the TCP/IP protocol suite provides service for end users.
	(A) application (B) session (C) transport (D) data-link (E) physical
9.	is a programming language specifically designed for AI.
	(A) C++ (B) Java (C) C# (D) LISP (E) None of the above
10.	In sort, the smallest number from the unsorted list is swapped with the number at the
	beginning of the unsorted list.
	(A) heap (B) bubble (C) selection (D) insertion (E) radix

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科目:<u>計算機概論</u> 共2頁,第2頁

NAME OF THE PARTY
二、填空題(30%, 每題 5%)
1. RAM (in Computer) stands for Access Memory.
2. ISP (in Network) stands for Service Provider.
3. CGI (in Web Technology) stands for Common Interface.
4. STL (in C++ language) stands for Standard Library.
5. SIP (in Network) stands for Initiation Protocol.
6. JSP (in Network) stands for Server Pages.
三、問答題(30%)
1. The following recursive function is written in C++ language. What is the value of RECUR(30, 105)?
Please show your work in detail. (10%)
int RECUR(int x, int y){
while( $x != y$ ){
if(x > y)
return $RECUR(x-y, y)$ ;
else
return $RECUR(x, y-x)$ ;
}
return x;
}
2. A list contains the following elements. What is the list after 2 passes of the selection sort? (10%)
20, 12, 26, 36, 7, 10, 12
3. Show the hexadecimal result of the following operations. (10%)
(A) $(EC)_{16}$ AND $(12)_{16}$ (B) $(12)_{16}$ OR $[(23)_{16}$ XOR $(CE)_{16}]$