國立嘉義大學九十六學年度 資訊工程學系碩士班招生考試試題

科目:計算機概論

1. Consider the underline statements of the program segments. If there is not any error, then comment as "ok". If there is any error in them, state the errors and correct them. (15%) - - - -

01	int *zPtr; /* zPtr will reference array z */
02	int *aPtr = NULL;
03	void *sPtr = NULL;
04	int number, i;
05	int z[5] = {1, 2, 3, 4, 5};
06	sPtr = z;
<u>07</u>	++zptr;
08	<pre>/* use pointer to get first value of array */</pre>
<u>09</u>	number = zPtr;
10	/* assign array element 2 (the value 3) to number */
<u>11</u>	number = *zPtr[2];
12	/* print entire array z */
<u>13</u>	for (i = 0; i <= 5; i++)
14	printf("%d ", zPtr[i]);
15	/* assign the value pointed to by sPtr to number */
<u>16</u>	number = *sPtr;
<u>17</u>	++ Z ;

2. Find the error(s) in each of the following and explain how to correct it (them): (15%)

(1) Assume the following prototype is declared in class Time :	MOV AL,DATA1
void ~Time(int);	MOV BL,DATA2
(2) The following is a partial definition of class Time .	ADD AL,BL
class Time {	MOV SUM,AL
public:	CALL DumpRegs
// function prototypes	EXIT
private:	MAIN ENDP
int hour = 0;	8. Convert the decimal number 0.325 to binary.(Select seven digits) (5%)
int minute = 0;	
int second = 0;	9. What is the execution result of the prefix expression $+-2*34+4/82$? (5%)

};

(3) Assume the following prototype is declared in class **Employee**: int Employee(const char *, const char *);

3. Describe the following terms: (18%)

(2) RSVP (ReServation Protocol)

(4) VPN (Virtual Private Network)

(3) DHCP (Dynamic Host Configuration Protocol)

.DATA

.CODE

DB

12H

08H ?

DATA1 DB

DATA2 DB

MAIN PROC

SUM

(1) Deadlock

(5) RFID (6) Hashing

(12%)

Hamming code. (10%)

Preorder : A B D F E G C Postorder: F D G E B C A

4. What advantages does a circuit-switched network have over a packet-switched network? (5%) What advantages does TDM have over FDM in a circuit-switched network? (5%) 5. Give the 4 characters "code", The Ascii is "1100011", "1101111", "1100100", "1100101". Write the

6. Draw the binary tree based on the following preorder and postorder sequence. (10%)

7. The Following is an assembly program for some microprocessor, what is the AX by program run.