Se	cuon 1. Single Choice(2 mai	ks for each item, total zu marks)				
1.	In the following notations,can <i>NOT</i> express a single-character constant(单字					
	符常量) correctly.					
	A. '%c' B. 127	C. '\077' D. 55				
2.		[5]; , the value of expression <b>sizeof(a[0])</b> is				
	A. 9 B. 4	C. 24 D. unknown				
3.	Which one below is <b>NOT</b> reserved for use as keyword in C?					
	A. case B. return	5				
4.	Which one below is <b>NOT</b> an alternative for the conditional expression: <b>a<b &&="" a="">c</b>?</b>					
	A. !(a>=b) && a>c	B. !(a>=b)&& !(a-c)				
	C. !(a>=b    a<= c)	D. !(a>=b    !(a>c))				
5.	Given: <i>int n[5][5]</i> ; which statement of element-accessing is wrong?  A. *n = 0; B. *n[1] = 1; C. n[5][-5] = 1; D. n[-1][6] = 1					
	A. *n = 0; B. *n[1]	= 1; C. $n[5][-5] = 1$ ; D. $n[-1][6] = 1$ ;				
6.	Which of the following is <b>NOT</b> cor	rect?				
	A.The global variable is defined outside the function.					
	B. The local variable is defined in	side the function.				
	C. The static variable is defined of	outside the function.				
	D. The automatic variable is defi					
7.	Which one below is different from the other three?					
	A. for (i=j=0 ;i<100 ;i++, j++);					
	B. i=j=0; while (i<100) {i++; j++;}					
	C. i=0 ;while ((j=i)<100) {i++;}					
_	D. i=0; j=0; do {i++; j++} while (j<=100);					
8.		of following assignment is correct?				
_	A. p=a B. p=&a					
9.	Given: <i>int a[5], *p=a;</i> , which statement below is completely correct?					
	A. scanf("%d", &p);	B. scanf("%d", &(a+1));				
40	C. scanf("%d", a+5);	D. scanf("%d", *&p);				
10.	Which of the following is correct?					

```
main()
       {
            int n[10];
            fun(n);
       int fun(int a∏)
       {
     A.Within the function fun, a is an initial address of an array, whose value cannot be changed.
     B. Within the function main, the reference such as &n is invalid.
     C.Because of call-by-value, the elements of the array n cannot be changed within the fun.
     D. Within the function fun, the reference such as &a is invalid.
Section 2: Fill in the blanks (2 marks for each item, total 30 marks)
    The value of expression 3/6*.2 is
    The value of expression ! "01-21-2018"[7] is_
3. Given: int c = w'; the value of expression c + a' - a' = w' is
4. Given: int x = 5;, after execute if(x==5 || (x-=3)) x++; the result of x is_____.
5. Given: char s[]="123\029\08"; , then sizeof(s) and strlen(s) will be _____
    respectively.
6. After executing the following code fragment, the value of n is .
    int n; for (n=-1; n; n--);
    After executing the following code fragment, the output is
    int i, b;
    i=b=1;
    switch(i){
        case 0: b+=1;
        case 1: b+=2:
        case 3: switch (b) {
                   case 3: i++;
                   default: break;
                 i+=1;
    printf("%d#%d#", i, b);
    The following code fragment will output_
    char *week[]={"Mon", "Tue", "Wed", "Thu", "Fri", "Sat", "Sun"}, **pw=week;
    char c1, c2;
    c1 = (*++pw)[1];
    c2 = *++pw[1];
    printf("%c#%c#", c1, c2);
9. The value of expression strcmp("abcabc", "aabbcc"+1) < 0 is_____.
10. The following code fragment will output .
    void PlusOne(int x) { x++;}
    int x = 0;
    PlusOne(x);
    printf("%d", x);
```

2.

```
11. The following code fragment will output______.
    int n=1;
    int fun(int m)
    {
       static int x=1;
       int y=0, n;
       x++; ++y;
       m+=x+y;
       n=m*2;
       return m;
    int main()
       printf("%d#%d#", fun(fun(n)), n);
12. The following code fragment will output
    int a[]={1,2,3,4,5,6,7,8}, *p, s;
    for(s=0, p=a+5; p>a-1; p--) s += *p;
    printf("%d", s);
13. Given: char * s;, which expression could replace the condition i<strlen(s) in the loop
    statement: for(i=0; i<strlen(s);i++)?
14. Try to use the function-call of fscanf(), to replace the function-call of
    scanf("%d",&m);
15. For the declaration: int a[3][4]={{0,1,2},{4,5,6},{7,8}};, the value of the element of
    a[1][-2] is_____ .
Section 3: Read each of the following programs and answer questions (5
marks for each item, total 30 marks)
1. The output of the following program is
    #include <stdio.h>
    void func(int i,int a∏,int n)
    {
         int j, temp;
         temp=a[i];
         for (j = i; j>0 && a[j-1]>temp; j--) a[j]=a[j-1];
         a[i]=temp;
    int main()
         int a[]=\{6,-1,8,2,3,7,1,5,4,0\}, i, n;
         n=sizeof(a)/sizeof(int); for(i=1;
         i \le n/2; i++) func(i,a,n);
         for(i=0; i<n; i++) printf("%d ", a[i]);
         return 0;
2. The following program will output
    #include <stdio.h>
    int func(int a[],int n)
    {
         int i,j,k=0;
         for (i=0; i<n; i++) {
            for (j=i+1; j< n; j++) if (a[i]>a[j]) k++;
         return k;
    }
```

```
int main()
         int a[7]=\{7,1,5,4,2,3,6\};
         printf("First:%d ", func(a,7));
         printf("Next:%d", func(a+1,6));
         return 0;
3. The following program will output
    #include <stdio.h>
     void sh(int a[], int left, int right)
     {
         int t, i, j;
         for (i=left, j=right; i<j; i++,j--)
              { t=a[i]; a[i]=a[j]; a[j]=t;
    int main()
         int number[]={1, 2, 3, 4, 5, 6, 7, 8}, i;
         sh(number, 0, 7);
         sh(number, 0, 2);
         sh(number, 3, 7);
         for( i=0; i<8; i++ ) printf("%d ", number[i]);
4. The following program will output
    #include <stdio.h>
    int main()
         int a[] = \{1,2,3,4,5,6\},*p,*q;
         for (p=&a[5], q=a; q<p; p--, q++) {
              p = p + q
              *q = *p - *q;
              *p= *p - *q;
         printf("%d#%d#", *p, *q);
5. When input 1/2 3/4<ENTER>, the following program will output
    #include <stdio.h>
     int compare(int a, int b, int c, int d);
     int lcm(int a, int b);
     int gcd(int a, int b);
    int main()
     {
        int a,b,c,d;
        int relation;
        scanf("%d/%d %d/%d", &a, &b, &c, &d);
        relation = compare(a,b,c,d);
        if (relation > 0) {
            printf("%d/%d is bigger.\n", a,b);
        } else if ( relation < 0 )
            {printf("%d/%d is bigger.\n", c,d);
            printf("%d/%d equals to %d/%d.\n", a,b,c,d);
     int compare(int a, int b, int c, int d)
```

```
int cm = lcm(b,d);
         a = a*(cm/b);
         c = c*(cm/d);
         return a-c;
    int lcm(int a, int b)
        return (a*b)/gcd(a,b);
     int gcd(int a, int b)
        while (b>0) { int t=a%b; a=b; b=t; }
        return a:
6. The following program will output___
    #include <stdio.h>
     int x, y, z, w;
     void p(int y[], int x)
         int w, *z;
         ^*y--; z=y; x++; w = x+^*++y;
         printf("%d#%d#%d#%d#",x, y[0], z[1], w);
    }
    int main(void)
         int x, y, z, w;
         x=y=z=w=1;
         do{
             static int x;
             p(&x, y);
             printf("%d#%d#%d#%d#",x,y,z,w);
          } while(0);
    }
```

## Section 4: According to the specification, complete each program (2 marks for each blank, total 20 marks)

1. The following function *int turn(char s[])* converts the string of hexadecimal number(十六进制数字符串) to the corresponding decimal integer(十进制整数). There may be some spaces on the head of the string, and the capitals(大写字母) are not recognized. For example, *turn(" -1b2A")* will return the value *-434*, which is the corresponding decimal integer of hexadecimal number *-1b2*. Please fill in the blanks to complete the functions.

```
else if (IsIn(s[i], 'a', 'z')) n = (5); else break;
        }
        return n*flag;
2. The function fileput(char * fname, char * text) creates(创建) an empty file fname, then writes a string pointed by
   text into it. The function filencat(char *fname1, char
   *fname2, int n) concatenates(拼接) at most n characters from fname2 to file
   fname1. Assume that the following program will run correctly, and when it finishes running, the 3 files f1.txt, f2.txt,
   and f3.txt contain 3 strings "WooMan", "Manager", and "GoodWoMan" respectively. Please complete it.
    #include <stdio.h>
    char* fileput(char * fname, char * text)
    {
                       (6) ; if(fp == NULL) return NULL;
       fputs(text, fp);
       fclose(fp);return fname;
    char* filencat(char * fname1, char * fname2, int n)
       FILE *fp1, *fp2; char c;
       if( fname1 == NULL || fname2 == NULL) return NULL; fp1 = (7)
       fp2 = fopen(fname2, "r");
       if (fp1 == NULL || fp2 == NULL) {printf("%s, %s\n", fname1, fname2);
          return NULL:
       c = fgetc(fp2); while (1) {
                                  (8); fputc(c, fp1);
           if(!n-- || feof(fp2))
                 (9)
       fclose(fp1); fclose(fp2); return fname1;
    int main(void)
    {
       if (!fileput("f1.txt","Woo")||!fileput("f2.txt","Manager")||!fileput("f3.txt","Good")) { printf("Fail the put\n");
          return 1;
       concatenation\n");
          return 2;
       printf("Complete the concatenation\n"); return 0;
    }
```

Section 1: Single Choice(2 marks for each item, total 20 marks)

1\_<u>A</u>\_

6 C

2 <u>B</u> 3 <u>C</u> 4 <u>B</u>

7\_ <u>D</u> 8 <u>C</u>

9 <u>D</u>

5\_A\_ 10\_B\_

Section 2: Fill in the blanks (2 marks for each item, total 30 marks)

0.0 \_\_\_\_ 2 \_\_\_\_

'w' \_\_\_\_ 4

6

8, 5 \_\_\_\_\_ 6 \_\_\_\_

0

7 3#3# \_\_\_\_\_ 8 \_\_\_\_

u#e#

0 10 \_\_\_\_

0

11 \_\_\_\_\_ 12 \_\_\_\_

21

15 2

Section 3: Read each of the following programs and answerquestions (5 marks for each item, total 30 marks)

1	-1236781540				
2	First: 11 Next: 5				
3	67812345				
4	4#3#				
5	3/4 is bigger.				
6	2#0#0#2#0#1#1#1				
Section 4: According to the specification, complete each program (2 marks for each blank, total 20 marks)					
(1)	c>=c1 && c<=c2	(2)	i++		
(3)	<u></u>	(4)	n*16+s[i]-'0'		
(5)			fopen(fname,"w")		
(7)	fopen(fname1,"a")	(8)	break		
(9)	c=fgetc(fp2) or c=getc(fp2)	(10)	filencat("f3.txt","f1.txt",2),"f2.txt",3		