任课教师 姓名 学号 院系 装 订 线

浙江大学 2017－2018 学年夏学期

《C 程序设计专题》课程期末考试题参考答案

课程号：__211Z0050__， 开课学院：_计算机学院__

考试试卷：√A 卷、B 卷（请在选定项上打√）

考试形式：√闭、开卷（请在选定项上打√），允许带__/__入场

考试日期：_2018_年_07_月_05_日，考试时间：_120_分钟

试题号	一	二	三	四	总分	
满分	20	30	30	20		
得分					统分人 1	
阅卷人					统分人 2	

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

1 C	2 A	3 A	4 D	5 D
6 B	7 C	8 D	9 D	10 C

Section 2: Read the following problems and answer questions (5 marks for each item, total 30 marks)

1. (1) 50-70-8102 (2) void (*fun(int))(int);

2. AC#ACD#ACDE#ACDEBC#ACDEBCD#ACDEBCDE#

3. Countdown from 9 to 0 in the center of the window: 1 second interval（在窗口正中央倒计时显示 9 到 0，间隔 1 秒）

4. (1) 6 (2) 1

5. 4 5 -2 -1 2 6

6. (1) One of the best case: the input is in the ascending numerical order.(3')

   (2) The best-case performance is O(n). (2')

Section 3: According to the specification, complete each program (2 marks for each blank, total 30 marks)

(1)	key	(2)	static double
(3)	MOUSEMOVE	(4)	InitGraphics()
(5)	registerMouseEvent(Painter)	(6)	ListNode
(7)	res * x	(8)	p->coe
(9)	p->next	(10)	return res
(11)	(low+high)/2	(12)	mid-1
(13)	j	(14)	selected
(15)	sizeof(a)		

Section 4: Algorithms design (10 marks for each item, total 20 marks)

1.

```
int process(struct node *h)
{
    struct node *p=h;    //1'
    int n=0,i;

    while (p) {              //3'
        push(p->data);
        p=p->next;
        n++;
    }
    p=h;                     //1'
    for (i=0; i<n/2; i++) {     //3'
        if (p->data!= pop()) break;
        p=p->next;
    }
    return (i==n/2);       //2'
}
```

2.

```
void push_zeros_end(int arr[], int n)
{
    int count = 0, i; // 1'

    for (i = 0; i < n; i++) {      //6'
        if (arr[i]) arr[count++] = arr[i];
    }
    while (count < n) {    //3'
        arr[count++] = 0;
    }
    return;
}
```