

《程序设计 (II)》期末试题参考答案 (A 卷)

Section A: Multiple Choices (20 points)

1-5: BCBAC

6-10: BDBBB

Section B: Short Answer (40 points)

1.

Ans:

(1) MyClass(int y){ x = y; } (3 points)

(2) int GetNum() {return x; } (3 points)

2.

(1) y(m), Base(n) (3 points)

(2) Derived(int m): y(m){cout<<m;} (3 points)

3.

```
Point& Point::operator ++()  
{  
    x++; y++;  
    return *this;  
} (5 points)
```

```
Point operator ++(Point &p, int)  
{  
    Point pt = p;  
    p.x++;  
    p.y++;  
    return pt;  
} (5 points)
```

4.

(1)

```
Circle::Circle(Point p, double r)  
{
```

```

    point.x = p.x;
    point.y = p.y;
    radius = r;
} (3 points)

(2)
double Circle::getCircumference()
{
    return 2 * PI * radius;
} (3 points)

(3)
double Circle::getArea()
{
    return PI * radius * radius;
} (3 points)

(4)
bool Circle::isInside(Point p)
{
    return (p.x - point.x) * (p.x - point.x) + (p.y - point.y)
* (p.y - point.y) < radius * radius;
} (3 points)

```

5.

Any two of the following codes will get the points, 3 points each.

```

(a)
for (i = 0; i < V.size(); i++) {
    cout << V[i].d << " ";
}

(b)
for (i = 0; i < 10; i++)
    cout << V.at(i).d << " ";

(c)
vector<data>::iterator ip;
for (ip = V.begin(); ip != V.end(); ip++)
    cout << ip->d << " ";

```

Section C: Program Output Analysis (40 points, 5 points each)

1.

100ObjectCounter(s)

2.

Destructor B!7
Destructor A!6
Destructor B!0
Destructor A!5

3.

10,20

4.

classA
classB
classC
classD

5.

1112

6.

122444

7.

10 9 8 7 6 5 4 3 2 1

8.

Hark The dog is calling
Jimmy The cat is calling