

5. Assume we have the following definitions in the object-oriented programming language T++, which has similar semantics to Java. Assume all method calls are bound dynamically in T++.

```
class P {  
    char t;  
    float x;  
    int w;  
    static int k;  
    void q() { ... } // address 200  
    void n() { .... } // address 300  
    void i() { .... } // address 400  
}
```

```
class C extends P {  
    char y;  
    void n(int z) { print z+w } // address 500  
    void m() { .... } // address 600  
}
```

```
class D extends P {  
    float z;  
    void n() { ..... } // address 700  
    void r() { ..... } // address 800  
}
```

- a) Show the virtual method table for the class D. (10 pts)

VMT for P

$\&q = 200$
$\&n = 300$
$\&i = 400$

VMT for D

$\&q = 200$
$\&n = 700$
$\&i = 400$
$\&r = 800$