

CSE 143 Su01 Quiz 3 – July 26, 2001

Name: _____

Section: _____

```
#include <iostream>
using namespace std;

class Music {
public:
    Music() { cout << "Music default constructor" << endl; }
    Music( int volume ) { cout << volume << endl; }
    virtual void listen() = 0;
    void sing() { cout << "Singing music" << endl; }
};

class Rock_N_Roll : public Music {
public:
    Rock_N_Roll() {cout << "Rock_N_Roll default constructor" << endl; }
    Rock_N_Roll( int volume, bool isLoud ) { if (isLoud) cout << volume*10 << endl; }
    virtual void listen() { cout << "Listen to rock and roll" << endl; }
    void sing() {cout << "Singing rock and roll" << endl; }
};
```

All questions refer to the code above.

1. What will be output as a result of the following code:

```
Rock_N_Roll rr(8, true);
```

(a) Rock_N_Roll default constructor

(b) 80

(c) 80
Music default constructor

(d) Music default constructor
80

(e) Music default constructor
8

CSE 143 Su01 Quiz 3 – July 26, 2001

2. Consider the declaration below:

```
Music m;
```

(TRUE/FALSE) The declaration above will cause an error.

3. Consider the declaration/initialization below:

```
Rock_N_Roll * rr_ptr = new Music;
```

(TRUE/FALSE) The statement above will cause an error.

4. What will be output as a result of the following code:

```
Music * m_ptr = new Rock_N_Roll(2, false);  
m_ptr->sing();
```

(a) Music default constructor
Singing music

(b) Singing rock and roll

(c) 20
Singing rock and roll

(d) 20
Singing music

(e) Rock_N_Roll default constructor
Singing rock and roll

5. Consider the code below:

```
Music * m_ptr = new Rock_N_Roll(5, false);  
m_ptr->listen();
```

(TRUE/FALSE) The code above will output the two lines “Music default constructor” and “Listen to rock and roll”