



Name (Arabic):

Section: Student ID:

10 1. What are the exact outputs of the following program?

```
1 #include<iostream>
2 using namespace std;
3 class A {
4 private:
5     int x;
6 public:
7     A(int i) {x=i+3; cout << "Can" << endl; who(); }
8     ~A() { cout << "Dad" << endl; who();}
9     void who(void){ cout << "A: x = " << x << endl; }
10 };
11 class B : public A {
12 private:
13     int x;
14     A a;
15 public:
16     B(int i) : a(i+22), A(i*4) {
17         x = i;
18         cout << "Cab" << endl;
19         a.who();
20     }
21     B() : A(11), a(20) {
22         x = 0;
23         cout << "Cab" << endl;
24         a.who();
25     }
26     ~B() { cout << "Dab" << endl; }
27     void who(void) { cout << "B: x = " << x << endl; }
28 };
29 int main(void)
30 {
31     B ob(4);
32     return 0;
33 }
```


2 2. Multiple Choices Questions?

(1) Operator overloading is

- (A) making C++ operators work with objects. (B) giving C++ operators more than they can handle.
(C) making new C++ operators.

3 3. Fill in Space:

(1) The ability of a function or operator to act in different ways on different data types is called

Question:	1	2	3	Total
Points:	10	2	3	15
Score:				

BEST WISHES
Dr. Mahmmoud Mahdi