

CPSC 217 Survey #2 – Winter 2010

Name: _____

1: What is a function?

Consider the follow code segment:

```
a = input()
b = input()

if (a < b):
    for i in range(a,b):
        print i
elif (b < a):
    for i in range(b,a):
        print i * -1
else:
    print 0
```

2: What is the minimum number of test cases that are required in order to achieve statement level test coverage?

3: Define a set of test cases that will provide statement level test coverage. Clearly indicate what value is entered for a and what value is entered for b for each test case.

4: Which of the following statements is most correct?

- A. A for loop is an example of a post-tested loop
- B. A for loop always counts from one value to another, increasing by one each time
- C. Two loops are said to be nested when one loop executes completely before the second loop executes for the first time
- D. Every while loop can be rewritten as a for loop
- E. None of the above answers are correct

Answer: _____

Consider the following code segment:

```
m = input()
n = input()

if (m < n):
    print "A"
    if (m > 0) and (n > 0):
        print "B"
    elif (n < 0):
        print "C"
    else:
        print "D"
else:
    print "E"
```

5: If the user enters the values 1 and 2 then the output will be the letter(s): _____

6: If the user enters the values 0 and 0 then the output will be the letter(s): _____

7: If the user enters the values -2 and -1 then the output will be the letter(s): _____

8: If the user enters the values 0 and 1 then the output will be the letter(s): _____

9: Rewrite the program shown below so that it uses a while instead of using a for loop.

```
a = input("Enter a: ")
b = input("Enter b: ")
total = 0
for i in range(a,b,3):
    if (i % 2) == 0:
        total = total + i
    else:
        total = total - i
print total
```

10: Which of the following logical expressions is equivalent to the truth table shown below?

- a) (A and B) or (not A and B)
- b) (A and not B) or (not A and not B)
- c) (not A and B) or (A and not B)
- d) (not A and not B) or (A and B)
- e) None of the above answers are correct

Answer: _____

A	B	Output
0	0	0
0	1	1
1	0	0
1	1	1