

1. Consider the following code segment:

```
1  int a = 10;
2  double b = 10.7;
3  int d = a + b;
```

Line 3 will not compile in the code segment above. With which of the following statements could we replace this line so that it compiles?

- I. `int d = (int) a + b`
- II. `int d = (int) (a + b);`
- III. `int d = a + (int)b;`

- (A) I
- (B) II
- (C) III
- (D) I and III
- (E) II and III

2. Consider the following code segment.

```
1  int a = 11;
2  int b = 4;
3  double x = 11;
4  double y = 4;
5  System.out.print(a/b) ;
6  System.out.print(", ") ;
7  System.out.print(x/y) ;
8  System.out.print(", ") ;
9  System.out.print(a/y) ;
```

What is printed as a result of executing the code segment?

- (A) 3, 2.75, 3
- (B) 3,2.75,2.75
- (C) 2,3.2
- (D) 2, 2.75,2.75
- (E) Nothing will be printed because of a compile-time error.

3. Consider the following code segment.

```
int val1 = 2, val2 = 22, val3 = 78;
while (val2 % val1 == 0 || val2 % 3 == 0 ){
    val3++;
    val2--;
}
```

What will val3 contain after the code segment is executed?

- (A) 77
- (B) 78
- (C) 79
- (D) 80
- (E) None of the above

4. Assuming all other statements in the program are correct, each of the following statements will allow the program to compile **EXCEPT**

- (A) `system.out.print(1);`
- (B) `System.out.print("1");`
- (C) `System.out.print(side1);`
- (D) `System.out.print"side1";`
- (E) All of the above statements will compile.

5. Assuming all other statements in the program are correct, each of the following statements will allow the program to compile **EXCEPT**

- (A) `//This is a comment`
- (B) `/* This is a comment*/`
- (C) `// myName is a good identifier name`
- (D) `// myname is a good identifier name`
- (E) All of the above statements will compile.