6. B

Which of the following pairs of declarations will cause an error message?

- (A) None
- (B) I only
- (C) II only
- (D) III only
- (E) I and III only

√2. <u>E</u>

Refer to the following code fragment:

```
double answer = 13 / 5;
System.out.println("13 / 5 = " + answer);
```

The output is

$$13 / 5 = 2.0$$

The programmer intends the output to be

$$13 / 5 = 2.6$$

Which of the following replacements for the first line of code will not fix the problem?

- (A) double answer = (double) 13 / 5;
- (B) double answer = 13 / (double) 5;
- (C) double answer = 13.0 / 5;
- (D) double answer = 13 / 5.0;
- (E) double answer = (double) (13 / 5);

(3. D

What will the output be for the following poorly formatted program segment, if the input value for num is 22?

```
int num = call to a method that reads an integer;
if (num > 0) 
if (num % 5 == 0) 
System.out.println(num);
else System.out.println(num + " is negative");
```

- (A) 22
- (B) 4
- (C) 2 is negative
- (D) 22 is negative
- (E) Nothing will be output.

```
A program has a String variable fullName that stores a first name, followed by
a space, followed by a last name. There are no spaces in either the first or last
names. Here are some examples of fullName values: "Anthony Coppola", "Jimmy
Carroll", and "Tom DeWire". Consider this code segment that extracts the last
name from a fullName variable, and stores it in lastName with no surrounding
blanks:
                                      //find index of blank
  int k = fullName.indexOf(" ");
  String lastName = /* expression */
Which is a correct replacement for /* expression */?
  I full Name. substring(k); X Starts @ Space
  II fullName.substring(k + 1); - Com. wes to end
 III fullName.substring(k + 1, fullName.length()); -ends e end
(A) I only
(B) II only
(C) III only
(D) II and III only
(E) I and III only
This question refers to the following declaration:
   String line = "Some more silly stuff on strings!";
   //the words are separated by a single space
What string will str refer to after execution of the following?
   int x = line.indexOf("m"); \lambda
   String str = line.substring(10, 15) + line.substring(25, 25 + x);
 (A) "sillyst"
 (B) "sillystr"
 (C) "silly st"
 (D) "silly str"
 (E) "sillystrin"
A program simulates fifty slips of paper, numbered 1 through 50, placed in a
bowl for a raffle drawing. Which of the following statements stores in winner a
random integer from 1 to 50?
 (A) int winner = (int) (Math.random() * 50) + 1;
                                                          Mathradam () = (),1)

V. 50 = 0,49

+1 = (), 5]
 (B) int winner = (int) (Math.random() * 50);
 (C) int winner = (int) (Math.random() * 51);
 (D) int winner = (int) (Math.random() * 51) + 1;
```

(E) int winner = (int) (1 + Math.random() * 49);

ED

D E

Consider these declarations:

Which expression involving these strings evaluates to true?

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

Go to the next page

Should be C, I clecks remorgaduresses, which went the same.

```
্রীয়ভাষাতাত 8 - 10 refer to the following Date class declaration.
  public class Date
      private int myDay;
      private int myMonth;
      private int myYear;
                                               //default constructor
       public Date()
       {
       }
       public Date(int mo, int day, int yr) //constructor
       {
       }
       public int month() //returns month of Date
       {
       }
       public int day() //returns day of Date
       {
       }
       public int year() //returns year of Date
       }
       //Returns String representation of Date as "m/d/y", e.g. 4/18/1985.
       public String toString()
       {
       }
```

```
Which of the following correctly constructs a Date object?
              (A) Date d = new (2, 13, 1947);
              (B) Date d = new Date(2, 13, 1947); Jecures + constructs
              (C) Date d;
                  d = new (2, 13, 1947);
              (D) Date d;
                  d = Date(2, 13, 1947);
              (E) Date d = Date(2, 13, 1947);
             A method in a client program for the Date class has this declaration:
                Date d1 = new Date(month, day, year);
             where month, day, and year are previously defined integer variables. The same
             method now creates a second Date object d2 that is an exact copy of the object d1
             refers to. Which of the following code segments will not do this correctly?
                I Date d2 = d1;
               II Date d2 = new Date(month, day, year);
               III Date d2 = new Date(d1.month(), d1.day(), d1.year());
              (A) I only
              (B) II only
              (C) III only
              (D) II and III only
              (E) I, II, and III
10. E
             A client program creates a Date object as follows:
                Date d = new Date(1, 13, 2002);
             Which of the following subsequent code segments will cause an error?
              (A) String s = d.toString();
              (B) int x = d.day();
              (C) Date e = d;
              (D) Date e = new Date(1, 13, 2002);
              (E) int y = d.myYear;
```