MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

1) If you want to output the text "go reds", including the quote marks, which of the following could do that?

- A. System.out.println("\"go reds\""); B. System.out.println("\"go reds"); C. System.out.println("go reds"); D. System.out.println(""go reds""); E. none, it is not possible to output a quote mark because it is used to mark the beginning and ending of the String to be output. 2) In the String major = "Cincinnati Bengals", what is returned by major.charAt(1)? A. 'i' B. 'n' C. 'C' D. "C" E. "Cincinnati" 3) Of the following types, which one cannot store a **numeric** value? A. char B. int C. double D. all of these can store numeric values E. none of these can store numeric values 4) What value will z have if we execute the following assignment statement? int z = 100 / 20.00; A. 50
 - 5) What value is stored in result if int result = 13 3 * 6/4 % 3;
 - A) 13

B. 5.0C. 10D. 5

- B) -1
- C) -5
- D) 12
- E) 0
- 6) What will be the result of the following assignment statement? (Assume b = 5 and c = 10) int a = b * (-c+2) / 2;

E. none of the above, a run-time error arises because z is an int and 100 / 20.00 is not

- A) -20
- B) -6
- C) 30
- D) 20
- E) -30

For questions 7&8, refer to the class defined below:

```
import java.util.Scanner;
public class Questions {
  public static void main(String[] args) {
    int x, y, z;
    double average;
    Scanner scan = new Scanner (System.in);
    System.out.println("Enter an integer value");
    x = scan.nextInt();
    System.out.println("Enter another integer value");
    y = scan.nextInt();
    System.out.println("Enter a third integer value");
    z = scan.nextInt();
    average = (x + y + z) / 3;
    System.out.println("The result of my calculation is " + average);
}
```

- 7) What is the output if x = 0, y = 1 and z = 1?
 - A. 0.67
 - B. 1
 - C. 0.66666666666666
 - D. 1.0
 - E. 0.0
- 8) The Questions program shown above computes:
 - A. The sum of x, y and z
 - B. The remainder of the sum of x, y and z divided by 3
 - C. The correct average of x, y and z as an int
 - D. The correct average of x, y and z as a double
 - E. The average of x, y and z as a double, but the result may not be accurate

Use the following class definition to answer questions 9,10,11,12.

```
public class StringStitch
{
    public static void main(String[] args) {
        System.out.print("Here");
        System.out.println("There " + "Everywhere");
        System.out.println("But not" + "in Texas");
    }
}
```

- 9) The program will print the word "Here" and then print
 - A. "There Everywhere" on the line after "Here"
 - B. "There" on the line after "Here" and "Everywhere" on the line after "There"
 - C. "There Everywhere" on the same line as "Here"
 - D. "ThereEverywhere" on the same line as "Here"
 - E. "ThereEverywhere" on the line after "Here"
- 10) The final println command will output
 - A. "But not in Texas"
 - B. "But notin Texas"
 - C. "But not" on one line and "in Texas" on the next line
 - D. "But not+in Texas"
 - E. "But not + in Texas"

,	w many lines of output are provided	by this program?	
	A. 1 D. 4		
]	B. 2 E. 5		
	C. 3		
12) A re	easonable comment for this progran	n might he	
A. // a program that demonstrates the differences between print, println and how + works			
	B. // a program that outputs a mes		
	C. // a program that demonstrates	· · · · · · · · · · · · · · · · · · ·	
]	D. // a program that outputs the me	essage "Here There Everywhere But not in Texas"	
]	E. // a program that has three outp	ut statements in it	
	1 6		
13) One	of the rules for converting English	to Pig Latin states: If a word begins with a consonant, move the consonant	
		nus "dog" becomes "ogday," and "crisp" becomes "rispcay". Suppose s is	
		at begins with a consonant. Which of the following creates the correct	
corre	esponding word in Pig Latin? Assu	ime the declarations	
	String ayString = "ay";		
	String pigString;		
A 1	pigString = s.substring(0, s.length()	(0.1) + s substring $(0.1) + avString$	
	pigString = s.substring(1, s.length(
	pigString = s.substring(1, s.length(
	pigString = s.substring(0, s.length()		
E. 1	<pre>pigString = s.substring(1, s.length()</pre>	(0)) + s.substring $(0,1)$ + ayString;	
14) Cons	sider the following statement:		
Ź		ea \t shells \n by the sea \r shore");	
This	s statement will output lines of		
A.		WAL	
B. 2			
C			
D. 4	4		
E. :	5		
15) Wha	at value will z have if we execute th	e following assignment statement?	
,	double $z = 5 / 10$;		
	A. z will equal 0.0		
	B. z will equal 0.5		
	C. z will equal 5.0		
	D. z will equal 0.05		
]	E. none of the above, a run-time e	rror arises because z is a double and 5 / 10 is an int	
16) A ca	ast is required in which of the follow	ving situations?	
	A. using charAt to take an elemen		
	B. storing an int in a double	t of a string and store it in a shar	
	•		
	C. storing a double in a double		
	D. storing a double in an int		
]	E. all of the above require casts		
17) If x	is an int and y is a double, all of the	e following are legal except which assignment statement?	
	A. $y = x$;		
	B. $x = y$;		
	C. $y = (double) x;$		
	D. $x = (int) y$;		
	E. all of the above are legal		