

## **Sample Questions**

## **Computer Programming**

- 1. A 8-bit signed integer has the following range
  - a. 0 to 255
  - b. -128 to 127
  - c. -255 to 254
  - d. 0 to 509
- 2. What will the output of the following code statements be? Integer x = 34.54, y = 20, z = -5 print (y > 50 AND z > 10 or x > 30)
  - a. 0
  - b. 1
  - c. -1
  - d. 10
- 3. Annie makes a program to print the product of cubes of the first 10 whole numbers. She writes the following program

```
integer x = 0 // statement 1 integer sum = 0 // statement 2 while ( x < 10 ) // statement 3
{
    sum = x*x*x // statement 4 x = x + 1 // statement 5
}
print sum // statement 6
Is her program correct? If not, which statement will you modify to correct it?</pre>
```

- a. No error, the program is correct.
- b. Statement 1
- c. Statement 4
- d. statement 6



- 4. I have a problem to solve that takes n as an input number. The problem has a property that given the solution for (n-1), I can easily solve the problem for n. Which programming technique will I use to solve such a problem?
  - a. Iteration
  - b. Decision-making
  - c. Object Oriented Programming
  - d. Recursion
- 5. Given Integer x = 40, y = 35, z = 20, w = 10

  Comment on the output of the following two statements print x \* y / z w print x \* y / (z w)
  - a. Differ by 80
  - b. Same
  - c. Differ by 50
  - d. Differ by 160
- 6. In which area of a class are data and function directly accessible outside the class?
  - a. Public
  - b. Private
  - c. Protected
  - d. None of these
- 7. Here is an infix notation ((A+B)\*C-(D-E))^(F+G) Choose the correct postfix notation of the above from the given options.
  - a. AB+CD\*E--FG+^
  - b. AB+C\*DE--FG+^
  - c. AB+C\*DE-FG-+^
  - d. A+BC\*DE-FG-+^



a. 2	
b. 4	
c. 6	
d. 8	
9. One of the following opti	ions is a form of access used to add and remove nodes from a queue.
a. LIFO	
b. FIFO	
c. Both LIFO and FIFO	
d. None of these	
10. What is the time comple	exity of adding three matrices of size NXN cell-by-cell?
a. O(N)	
b. O(N^2)	
c. O(N^3)	
d. None of these	