

## COMPUTER PROGRAMMING

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**Q1. Here is an infix notation:  $((A+B)*C-(D-E)) ^ (F+G)$  Choose the correct postfix notation of the above from the given options.**

- AB+CD\*E--FG+^
- AB+C\*DE--FG+^
- AB+C\*DE-FG--+^
- A+BC\*DE-FG--+^

**Q2. An 8-bit signed integer has the following range:**

- 0 to 255
- 128 to 127
- 255 to 254
- 0 to 509

**Q3. Pankaj 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?

- No error, the program is correct
- Statement 1
- Statement 4
- statement 6
- statement 2

**Q4. I have a problem to solve which takes as input a number n. 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?**

- Iteration
- Decision-making

- Object Oriented Programming
- Recursion

**Q5.** Given:

Integer  $x = 40$ ,  $y = 35$ ,  $z = 20$ ,  $w = 10$

Comment about the output of the following two statements:

```
print x * y / z - w  
print x * y / (z - w)
```

- Differ by 80
- Same
- Differ by 50
- Differ by 160

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