

# COMPUTER PROGRAMMING

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**Q1. Here is an infix notation:  $((A+B)*C-(D-E)) \wedge (F+G)$  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