

# Computer Science Assignments

Class – XI (2018-19)

## Part-I

- Q.1 Define the term Inheritance?
- Q.2 What is an object and a class?
- Q.3 What is data abstraction? Explain the concept with the help of an example.
- Q.4 Write two major differences between object oriented programming and procedural programming?
- Q.8 Differentiate between Data hiding and encapsulation.
- Q.6 Write a short note on OO programming.
- Q.5 What is polymorphism? Explain with example.
- Q.7 State the advantages and disadvantages of OOP.
- Q.9 Why are classes called abstract data type?
- Q.10 Define Encapsulation? Why is data considered safe if encapsulated?

## Part-II

- Q.1 What is an infinite loop?
- Q.2 WAP to print the following series
  - a. 1, 3, 5, 7, ....., 19
  - b. 2, 4, 6, 8, ....., 20
  - c. 1, 4, 9, 16, 25
  - d. 100, 90, 80, 70, ....., 10
- Q.3 W
- Q.5 Write a program to print the table of a given number using while loop.
- Q.6 WAP to check whether the number is positive or negative.
- Q.7 Use a nested loop to produce the following output :
  - a. 1  
2 2  
3 3 3  
4 4 4 4  
5 5 5 5 5
  - b. \*  
\* \*  
\* \* \*  
\* \* \* \*
- Q.8 WAP to calculate the factorial of a number?
- Q.9 WAP to find the sum of the series :  
 $S=1+x+x^2+x^3+\dots+x^n$
- Q.10 Write a program to demonstrate explicit conversion and justify the need of doing so.
- Q.11 What is the entry controlled loop and exit controlled loop?
- Q.12
  - a) Write a cpp program to generate Fibonacci series
  - b) Write a cpp program to print that given year is a leap year.