# II – SEMESTEREXAMINATION, 2017-18

DATE: SUBJECT:COMPUTER-SCIENCE-I STD:XI
DURATION:3 hrs MARKS:50

Note: Figures to the right of the question indicate marks.

Q.1 A]		Select the correct alternative and rewrite the following	4 M
Aj	1	loop is a bottom tested loop.	
		a) for b) dowhile c) switch d) while	
	2	The default return type of a function is	
		a) intb)float c)char d)double	
	3	In visual basic is the extension to represent project file.	
		a) .frm b) .vbp c) .vb d) .cls	
	4	The hexadecimal number system uses as the base number.	
		a)15 b) 2 c) 16 d) 2	
B]		Answer any two of the following	6 M
	1	List different data types available in VB?	
	2	Find 2's complement of the decimal number $(20)_{10}$ .	
	3	Write a short note on nested. If with a suitable example.	
Q.2 A]		Answer any two of the following	6M
	1	Difference between for and dowhile.	
	2	Explain the properties of control textbox used in VB.	
	3	Explain switch statement with a suitable example.	
<b>B</b> ]		Answer any one of the following	4M
	1	Write a short note on break and continue statement with one example.	
	2	Convert the given decimal number to binary 36.1875.	
Q.3 A]		Answer any two of the following	6M
	1	What is a variable. State three rules for defining a variable?	
	2	Perform the binary addition of $(11101)_2 + (1010)_2$	
	3	Write an algorithm to find area and circumference of circle.	
<b>B</b> ]		Answer any one of the following	4M
	1	Write an algorithm and draw a flowchart to find reverse of a number.	

2 Define the following.

 $\mathbf{A}$ 

a) Bit b) Nibble c) Byte d) Word

# Q.4 Answer any two of the following

**6M** 

- 1 Explain the concept of 1d array & its initialization with a suitable example
- 2 Explain do....while used in VB with a suitable example.
- 3 Explain the concept of function with arguments and return values.

## B] Answer any one of the following

**4M** 

- 1 What is operator in C++.Explain two types of operators used in C++ with a suitable example.
- 2 Write a short note on flowcharts.

### Q.5 Answer any two of the following

**10M** 

- 1 Write a program in VB to find sum of user entered ten numbers using do...while loop.
- 2 Write a program in C++ to find sum of all digits of inputted number using function. The function prototype is int sum\_of\_digits(int n). For eg:if n=123 then sum=1+2+3=6
- 3 Write a program in C++ to calculate length of a string without using library function.

#### OR

# Q.5 Answer any two of the following

**10M** 

- 1 Write a program in C++ to reverse a number and check whether the inputted number is palindrome or not.
- 2 Write a program in C++ to accept a string and find out occurrences of each vowels in it.
- 3 Write a program in C++ to accept 10 numbers and print all even numbers from them.