



Reg.No. _____

End Semester Examination – Nov/Dec - 2016

Code : 11EE223/12EE227/EE261 **Semester :** 2016-17 ODD
Sub. Name : C++ AND DATA STRUCTURES **Duration :** 3 hrs
Max. marks : 100

Q. No.	Questions	Course outcome	Marks
PART-A(10X1=10 MARKS)			
1.	List the data types in C++.	CO1	(1)
2.	Write the use of constructor.	CO1	(1)
3.	Write the advantages of inheritance?	CO2	(1)
4.	In the following which operator cannot be overloaded? a. + b. :: c. ?: d. both b and c	CO2	(1)
5.	Write the significance of this pointer.	CO2	(1)
6.	Explain about exception.	CO2	(1)
7.	Write the importance of circular linked list?	CO2	(1)
8.	Define stack.	CO3	(1)
9.	List the different searching techniques available?	CO3	(1)
10.	Write the importance of sorting.	CO3	(1)

PART B(5 X 3= 15 MARKS)			
11	Give the significance of new and delete operator.	CO1	(3)
12	Differentiate class and structure.	CO1	(3)
13	Write short notes on virtual functions.	CO3	(3)
14	Define singly linked list and doubly linked list with its representation.	CO3	(3)
15	Explain the concept of sorting in C++.	CO3	(3)

PART C(5 X 15= 75 MARKS)			
16.	a.	Write a detailed note on Copy Constructors with a suitable example.	CO1 (15)
(OR)			
17.	a.	Discuss in detail about Arrays in C++ with suitable examples.	CO1 (15)
18.	a.	Explain different inheritance that are possible in C++ programming language with an example.	(15)
(OR)			
19.	a.	Write a C++ program for binary operator overloading.	CO2 (15)
20.	a.	Write in detail about friend functions in C++.	CO2 (15)
(OR)			
21.	a.	With a suitable example ,explain the concept of file pointers.	CO2 (15)
22.	a.	Write a C++ program to insert and delete elements into a stack.	CO3 (15)
(OR)			
23.	a.	With a suitable example ,explain the linked list	CO3 (15)
24.	a.	Explain bubble sort with a suitable example.	CO3 (15)
(OR)			
25.	a.	Write a C++ program to implement linear search algorithm	CO3 (15)